Student Handbook

Academic Year 2018/2019

Faculty of Applied Sciences

Wayamba University of Sri Lanka

Faculty of Applied Sciences
Wayamba University of Sri Lanka
Kuliyapitiya
Sri Lanka

PROSPECTUS

for the

ACADEMIC YEAR 2018/2019

N.B.   Approved by the Faculty Board of Applied Sciences at its 90th Meeting held on 12.08.2011 & the Senate of the Wayamba University of Sri Lanka at its 95th Meeting held on 18.01.2012 with subsequent amendments.

VISION

To become the premier Applied Science Faculty

that enriches the Sri Lankan community

with graduates of vibrant intellectuality,

outstanding professionalism and brilliant personality.

MISSION

To prepare the graduates from the Faculty of Applied Sciences to become successful professionals within a global society through an education rooted in science and industry.

We intend to accomplish our mission by:

providing our graduates with solid knowledge through an educational experience rich in theory and reinforced with meaningful application based learning to solve challenging problems in reality,

creating an atmosphere that foster a balanced and increasing development in teaching, learning, research and other services, and

being responsive to industry needs and global opportunities.

CONTENTS

1. INTRODUCTION

GENERAL

The Faculty of Applied Sciences of the Wayamba University of Sri Lanka was established with effect from 01 October, 1999 by the Government Notification in the Extraordinary Gazette No. 1093/8 of Tuesday, 17 August, 1999. The Faculty is located at Kuliyapitiya Premises of the University and consists of four Departments of Study namely, Computing & Information Systems, Electronics, Industrial Management and Mathematical Sciences contributing to the degree programmes on Applied Sciences.

The Department of Mathematical Sciences offers courses in the subject areas of Mathematics & Mathematical Modelling and Statistics and the other three Departments of Computing & Information Systems, Electronics, and Industrial Management offer courses in the subject areas indicated by their titles.

Although the Computer Laboratories of the Department of Computing & Information Systems are primarily intended to facilitate the conduct of practical components in Computing & Information Systems, they would provide facilities for the students undertaking project work and offering other major subjects at the other Departments of Study.

The Information Communication Technology Centre and the English Language Teaching Unit, which come under the purview of the Vice-Chancellor, operate through a Director and a Coordinator respectively, offer service courses to the undergraduates of both Faculties at Kuliyapitiya to further their IT skills and oral & written communication skills.

ACADEMIC

An academic year consists of two semesters of 15 weeks each and academic programmes are based on a course credit system, which embodies characteristics such as modularity, flexibility, and accumulation of credits. After each semester, a study leave period of 2 weeks will be given prior to the commencement of the respective end-semester examinations conducted within a period of 4 weeks. However, examinations of practical components, project work, inplant training programmes etc. may be held prior to the end-semester examination period as decided by the relevant Department of Study.

Each course module is presented in the form of course unit(s) with specific credit values for its corresponding theory/ practical component(s). One credit is equivalent to 1 lecture hour or 2-3 practical hours a week throughout a semester. All academic programmes including examinations are conducted in English Medium and each student will be selected for a 3-subject combination at the beginning of Level 1 based on an internal selection criteria based on the Advanced Level Z-Score and the District Quota.

Three combinations of three subjects in each are available for students at Level 1 and Level 2, which open avenues for the students to qualify themselves to follow one of the 4-Year B.Sc. (Special) Degree, 4-Year B.Sc. (Joint Major) Degree, or the 3-Year B.Sc. (General) Degree over the ensuing years within the original combination.

All students should register for the modules before the commencement of each academic year at the Faculty Office of Applied Sciences. Students are not permitted to change their choice of modules after the first two weeks of the relevant academic year. Students shall be permitted to sit for the examination of a particular module only if they are registered for that module.

All subject combinations comprise of modules from three major disciplines constituted with the following aims of the Faculty:

- to provide an education that will facilitate the engendering of graduates who are not only knowledgeable and skillful, but also confident, enterprising and well versed in communication skills and enriched with correct attitudes.

- to produce graduates of the caliber sought by industry and the public service.

- to respond to the needs of the community in particular through the provision of out-reach programmes.

After embarking on a particular stream (subject combination), a student must offer modules aggregating to a minimum of 30 credits in each academic year including all compulsory modules specified by the respective Departments. As permitted by the semester Time Tables, a student shall be allowed to offer modules aggregating to a maximum of 33 credits in each academic year.

GRADUATE ATTRIBUTES

The graduate attributes of the Faculty encompass not only the future employment and contribution to the economic & social growth of the country but also producing a self-contained, committed and inquisitive person who has curiosity for continuous learning.

The undergraduates of the Faculty will be provided with different course modules creating the opportunity to develop the following specific attributes:

➢ Social accountability
➢ Economic engagement
➢ Self containment
➢ Lifelong learning

2. ABBREVIATIONS AND NOTATIONS

An alpha numeric code is used to identify a course module. The code consists of four digits prefixed by a set of four letters which refers to the subject area of the module. The first digit denotes the level at which the module is conducted, the second digit the semester during which it is conducted, the third a number assigned by the department which conducts it while the fourth signifies the credit rating of the module.

Semester during which the
Course Module will be given   Credit rating

X   X   X   X

Level   Number given by
                         the Department

- CMIS   Computing & Information Systems
- ELTN   Electronics
- IMGT   Industrial Management
- INDT   Industrial Training
- MATH   Mathematics
- MMOD   Mathematical Modelling
- STAT   Statistics
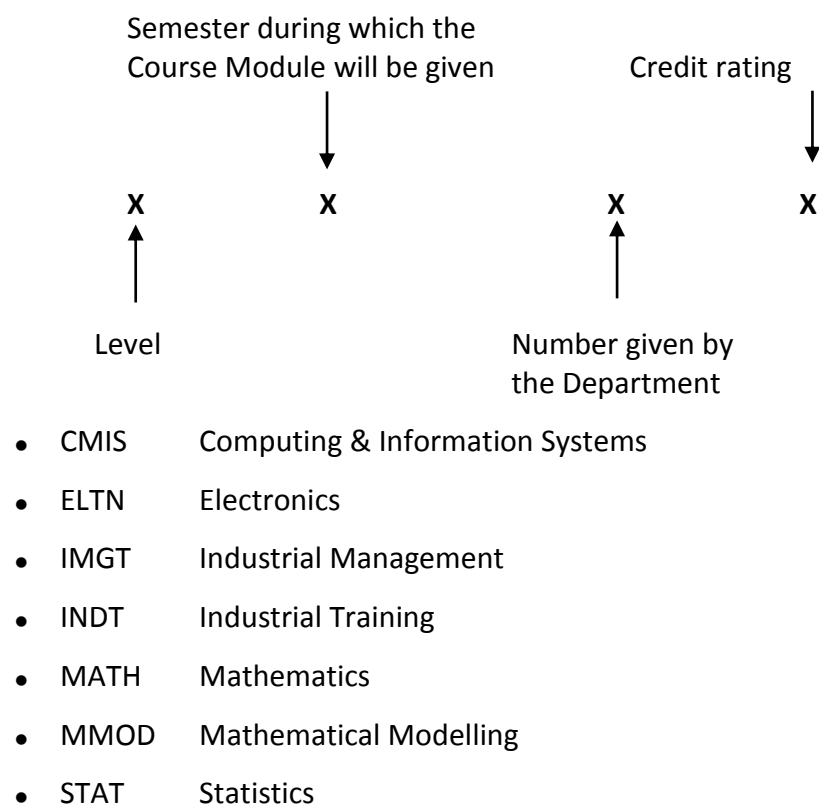
Some modules require courses of study that must previously be completed before students are allowed to follow them. Such courses of study are called pre-requisites (PR). Some units require other units to be taken simultaneously, which are called co-requisites (CR). Some of the prerequisites are subjects offered for the GCE (Advanced Level) Examination.

Example: MATH 1234 is the Mathematics Level 1 module conducted during the second semester having course number 3 and a weighting of 4 credits.

The subject areas offered by each Department of Study are as follows:

Department of Computing & Information Systems   :   CMIS

Department of Electronics   :   ELTN

Department of Industrial Management   :   IMGT

Department of Mathematical Sciences   :   MATH & MMOD, STAT

3. ACADEMIC & ADMINISTRATIVE STAFF OF THE FACULTY, LIBRARY AND THE COMMON SUPPORT UNITS

FACULTY OFFICE

Dean:
Dr. L.D.R.D. Perera, *B.Sc. (Hons.), M.Phil. (Kelaniya), D. Eng. (Kyushu)*
Physics, Electronic Device Engineering

Assistant Registrar:
Miss. D.M.P.S.K. Dissanayake, *B.Sc. Business Administration (Hons.) (Sri J'pura)*

DEPARTMENT OF COMPUTING AND INFORMATION SYSTEMS

Head of the Department:
Dr. V.G.T.N. Vidanagama, *B.Sc. (Hons.) (Peradeniya), M.Sc., D.Sc. (Waseda)*

Senior Lecturers (Grade II):
Dr. V.G.T.N. Vidanagama, *B.Sc. (Hons.) (Peradeniya), M.Sc., D.Sc. (Waseda)*
Global Information & Telecommunication Studies

Mr. T. Arudchelvam, *B.Sc. (Hons.) (Jaffna), M.Sc., M.Phil. (Peradeniya)*
Computer Science

Mrs. B. Munasinghe, *B.Sc. (Hons.), M.Sc. (SLIIT)*
Computer Science, Information Management

Mr. N.D. Liyanagedera, *B.Sc. (Hons.), M.Phil. (Peradeniya)*
Computer Science

Mrs. H.R.K. Nagahamulla, *BIT (Colombo), B.Sc. (Hons.), M.Phil. (Peradeniya)*
Computer Science

Mrs. R.P.T.H. Gunasekara, *B.Sc. (Hons.) (Kelaniya), M.Sc. (UCSC)*
Statistics, Computer Science

Mr. J.R.K.C. Jayakody, *B.Sc. (Hons.), M.Sc. (UoM)*
Data Science, Engineering and Analytics

Lecturers:
Mrs. W.H.C. Wickramaarachchi, *B.Sc. (Hons.) (Peradeniya)*
Computer Science

DEPARTMENT OF ELECTRONICS

Head of the Department:
Dr. W.A.S. Wijesinghe, *B.Sc. (Hons.) (Sri J'pura), M.Phil. (Colombo), Ph.D. (Wesleyan-USA)*

Professors:
Prof. K.P. Vidanapathirana, *B.Sc. (Peradeniya), Ph.D. (Peradeniya)*
Physics, Solid State Physics, Polymer Electronics

Prof. (Mrs.) G.A.K.S. Perera, *B.Sc. (Peradeniya), M.Sc. (Peradeniya), Ph.D. (Peradeniya)*
Physics, Solid State Physics, Polymer Electronics

Senior Lecturers (Grade I):
Dr. L.D.R.D. Perera, *B.Sc. (Hons.), M.Phil. (Kelaniya), D. Eng. (Kyushu)*
Physics, Electronic Device Engineering

Mr. M.A.A. Karunarathne, *B.Sc. (Hons.) (Ruhuna), M.Phil. (Moratuwa) - (On Study Leave)*
Physics, Electronic & Telecommunication Engineering

Dr. Y.A.A. Kumarayapa, *B.Sc. (Hons.) (Colombo), M.Sc. (Peradeniya), Ph.D. (HIT)*
Physics, Information & Communication Engineering, Opto-Electronics, Microprocessor Based Systems

Senior Lecturers (Grade II):
Dr. W.A.S. Wijesinghe, *B.Sc. (Hons.) (Sri J'pura), M.Phil. (Colombo), Ph.D. (Wesleyan-USA)*
Configurable Hardware, Embedded Systems Design

Dr. (Mrs.) J.M.J.W. Jayasinghe, *B.Sc. (Eng.) (Hons.) (Peradeniya), Ph.D. (Peradeniya)*
Electrical & Electronics Engineering

Dr. P.M. Senadeera, B.Sc. (Peradeniya), B.Sc. (Ohio,USA), M.Sc. (Ohio,USA), Ph.D. (North Carolina, USA)
RF and Microwave design, Mixed signal VLSI design, CMOS Analog IC design

DEPARTMENT OF INDUSTRIAL MANAGEMENT

Head of the Department:
Dr. M.M.D.R. Deegahawatura, *B.Sc. Business Administration (Hons.) (Sri J'pura) MBA (Colombo), MBA in MOT (AIT), Ph.D. (HUST)*

Senior Lecturers (Grade I):
Dr. M.M.D.R. Deegahawatura, *B.Sc. Business Administration (Hons.) (Sri J'pura) MBA (Colombo), MBA in MOT (AIT), Ph.D. (HUST)*
Business Administration, Management of Technology, Innovation Management

Senior Lecturers (Grade II):
Dr. E.A.C.P. Karunarathne, *B.Sc. (Hons.) (Kelaniya), MBA in Marketing (AIT), Ph.D. (HUST)*
Industrial Management, Marketing Management

Mr. D.M. Jayasena, *B.Sc. Business Administration (Hons.) (Sri J'pura), MBA (AIT)*
Business Administration, Financial Management

Dr. (Mrs.) R.A.R. Prabodanie, *B.Sc. (Hons.) (Kelaniya), Ph.D. (Canterbury)*
Industrial Management, Operations Research

Dr. (Mrs.) W.G.E.J. Wattegama, *B.Sc. Business Administration (Hons.) (Sri J'pura), M.Sc. Management (Sri J'pura) Ph.D. (HUST)*
Business Administration, Entrepreneurship, Marketing Management

Ms. B.S. Habaragoda, *B.Sc. (Hons.) (Kelaniya), M.Sc. (Moratuwa) – (On Study Leave)*
Industrial Management, Financial Mathematics

Mrs. P.A.A.U. Jothirathna, *B.Sc. (Hons.) (Kelaniya), M.Sc. (Moratuwa)*
Industrial Management, Operational Research

Mrs. M.G.S. Dilanthi, *B.Sc. Eng. (Hons.) (Peradeniya), M.Sc. (Moratuwa)*
Production Engineering, Operational Research

Lecturers:
Dr. A. Pallegedara, *B.Eng. (UEC), MA (GRIPS), Ph.D. (GRIPS)*
(On Post Doctorial Studies)
Economics, Finance, Information Technology

Dr. A.D. Dharmawansa, B.*Sc. (Hons.) (Wayamba), M.Eng. (NUT), D.Eng. (NUT)*
Industrial Management, Educational Technology, Kansei Engineering

Ms. E.A.C. Dilrukshi, B.Sc. (Special) (Wayamba)
Industrial Management

Mrs. G.M. Ranasinghe, B.Sc. (Hons.) (Wayamba) - *(On Study Leave)*
Industrial Management, Statistics

DEPARTMENT OF MATHEMATICAL SCIENCES

Head of the Department:
Dr. P.M.N. Dharmawardane, *B.Sc. (Hons.) (Kelaniya), M.Phil. (Kelaniya), M.Sc. (Kyushu), Ph.D. (Kyushu)*

Associate Professor:
Prof. E.M.P. Ekanayake, *B.Sc. (Hons.) (Kelaniya), M.Sc. (Kyushu), D.Sc. (Kyushu), Fellow (Oxford)*
Mathematics, Atmospheric Dynamics

Senior Lecturers (Grade II):
Dr. (Mrs.) G.S. Francisco, *B.Sc. (Hons.) (Kelaniya), M.Sc. (ECNU), Ph.D. (Keele,UK)*
Mathematics & Mathematical Modelling, Differential Equations

Dr. P.M.N. Dharmawardane, *B.Sc. (Hons.) (Kelaniya), M.Phil. (Kelaniya), M.Sc. (Kyushu), Ph.D. (Kyushu) Mathematics & Mathematical Modelling, Differential Equations*

Mrs. W.M.P.M. Wickramasinghe, *B.Sc. (Hons.) (Kelaniya), M.Sc. (Colombo)*
Statistics

Mrs. N.A.D.N. Napagoda, *B.Sc. (Hons.) (Kelaniya), M.Sc. (Colombo), Ph.D. (CCNU, China)*
Statistics

Mrs. P.A.D.A.N. Appuhamy, *B.Sc. (Hons.) (Kelaniya), M.Sc. (Colombo)*
Statistics

Mrs. W.J.M.L.P. Jayasinghe, *B.Sc. (Hons.) (Kelaniya), M.Phil. (Kelaniya)*
Mathematics & Mathematical Modelling

Lecturers:
Mr. G.A.C.M. Karunananda, *B.Sc. (Hons.) (Kelaniya), M.Sc. (Moratuwa)*
Mathematics & Mathematical Modelling, Financial Mathematics

Mr. D.M.S. Bandara, *B.Sc. (Hons.) (Peradeniya), (M.Sc. (Ximen,China)*
Mathematics

Mr. G.M.L.M. Aponsu, *B.Sc. (Hons.) (Kelaniya)*
Statistics

Ms. S.D. Dahanayaka, *B.Sc. (Hons.) (Kelaniya)*
Mathematics & Mathematical Modelling

Mrs. P.M.O.P. Panahatipola, *B.Sc. (Hons.) (Peradeniya)*
Statistics

Mr. G.V.R.K. Vithanage, *B.Sc. (Hons.) (Kelaniya) - (On Study Leave)*
Mathematics

LIBRARY:

Acting Librarian:
Mr. W. Punyawardena

Senior Assistant Librarian:
Mrs. W.M. Thusithakumari, *B.A. (Hons.) (Kelaniya), MSSc in LIS (Kelaniya), ASLLA, Charted Librarian*

Assistant Librarian:
Mr. K.G.I. Jayawardana, *B.A. (Hons.) (Kelaniya)*

Assistant Registrar/ Library Services:
Mrs. S. Pathiraja, *B.A. (Kelaniya), ASLLA, Charted Librarian*

Programmer Cum Systems Analyst:
Mr. E.M.C.L. Ekanayake*, B.Sc. (Wayamba), M.Sc. (Peradeniya) (On Leave)*

INFORMATION COMMUNICATION TECHNOLOGY CENTRE

Director:
Dr. V.G.T.N. Vidanagama, B.Sc. *(Hons.) (Peradeniya)*, M.Sc., D.Sc. *(Waseda)*

Lecturers:
Mr. H.M.A.J. Herath, *B.Sc. (Hons) (Rajarata)*

Instructor:
Mr. A.C.A. Wahab, *B.Sc. (Wayamba)*
Applied Science

System Engineer:
Mr. H.M.A.K. Bogoda, *B.Sc. (Hons.) (Peradeniya)*
Computer Science

DEPARTMENT OF ENGLISH LANGUAGE TEACHING [FBSF]

Coordinator
Dr. K.M. Dissanayake, *PhD in TESL (UPSI, Malayasia), M.A. (Kelaniya), B.A. (Hons.) (Peradeniya), PGDBM (Wayamba)*

Senior Lecturers (Grade II):
Dr. K.M. Dissanayake, *PhD in TESL (UPSI, Malayasia), M.A. (Kelaniya), B.A. (Hons.) (Peradeniya), PGDBM (Wayamba)*

Mr. M.K.S.M. Samaranayake, *M.A. (Kelaniya), M.A. in TESL (OUSL), B.A. (Kelaniya), PG.Dip. (TESL) (Colombo)*

Mr. E.M.H.J. Edirisinghe, *M.A. (Kelaniya), M.A. in TESL (OUSL), B.A. (Sri J'pura), PG.Dip. (Sri J'pura)*

Mrs. W.S.A. Fernando, *M.A. (Kelaniya), M.A. in TESL (OUSL), B.A. (Sri J'pura), PG.Dip. (TESL) (Colombo)*

4. DEPARTMENTS OF THE FACULTY & COMMON SUPPORT UNITS

DEPARTMENT OF COMPUTING & INFORMATION SYSTEMS

The new information revolution which began in business has gone farthest in every field of life, society and of technology. Information is the foundation for the challenges of knowledge.

The main objective of the Department of Computing & Information Systems is to equip the students with a sound knowledge on ICT to face the above challenges at their own work and employment. Therefore, the Department offers course modules in the following areas of the subjects, and multiple projects and an industrial training programme to achieve the above objectives.

- Operating Systems
- Computer Programming
- Software Engineering
- Database Management Systems
- Data Communication & Computer Networks
- Artificial Intelligence
- Data Structures & Analysis of Algorithms
- Web Designing & e-Commerce
- Computer Graphics & visualization
- Mobile & Ubiquitous Computing
- Distributed & Cloud Computing
- Parallel Computing

The department contributes to the academic programmes of the Faculty by offering Computing and Information Systems (CMIS) as a major subject for the B.Sc. (General) Degree and the B.Sc. (Joint Major) Degree programmes as well as the B.Sc. (Special) Degree in Computer Science for undergraduate students. The department is also ready to offer Master of Philosophy (M.Phil.) and Doctor of Philosophy (Ph.D.) for post graduate students.

DEPARTMENT OF ELECTRONICS

Electronics is a fascinating subject that could make your time at the University a challenging, enriching, and rewarding experience. This subject has become so important to the society, that we simply cannot do many things without it. If you have the idea of creating electronics systems which could help millions of people on a day to day basis, like the systems used in phones, or computers, then you may be interested in studying the subject offered by the Department of Electronics.

The Department of Electronics offers course modules for three degree programmes of the Faculty of Applied Sciences, namely B.Sc. (General) Degree, B.Sc. (Joint Major) Degree, and B.Sc. (Special) in Applied Electronics for undergraduate students, and

degrees Master of Philosophy (M.Phil.) and Doctor of Philosophy (Ph.D.) for postgraduate students.

Students who need general knowledge of Electronics may follow the Electronics course modules offered under 3-year B.Sc. (General) programme. Those who wish to study Electronics to some depth with another main subject can follow 4-year Joint Major Degree programme. Past graduates who followed Electronics as a Major subject had no difficulty in finding employment opportunities, where most of them started their career as an engineer or assistant engineer in private sector. Recently started special degree in Applied Electronics provides deeper subject knowledge to students those who wish to seek career opportunities in Research & Development or in Academia.

The Department of Electronics consists of well-qualified academic staff committed to provide conceptual knowledge as well as practical skills for undergraduate students in the following areas,

- Fundamentals of Electronics
- Analog Circuits
- Digital Systems
- Communication & Antenna Design
- Microprocessor Technology
- Signal Processing
- Embedded Systems
- Programmable Hardware

With the rapid expansion of the technology sector, the demand for experts in Electronics has been increasing accordingly. Therefore, students who study Electronics will have various career opportunities. The Department of Electronics takes all measures to equip students with sound knowledge and skills to succeed in their career, and meet the demands of socio-economic development of the country.

DEPARTMENT OF INDUSTRIAL MANAGEMENT

The Department of Industrial Management has already realized the future challenges and the importance of socio-economic development of Sri Lanka. Therefore, the Department of Industrial Management has articulated its main objective to produce readily employable graduates to face 21st century management challenges.

To achieve the above objective, the Department offers a number of course modules, not only to gain the conceptual knowledge but also to have hands on experience in all aspects of information system development with exposure to business problem analysis and problem solving through "Design & Development of Computer Based Project" and hands on managerial experience through "Industrial Training" at manufacturing and service organizations. These provide students with the opportunity to relate the academic contents of the modules to practical applications.

A systematic conceptual framework is built for the students in the following areas:

- Production, Operations & Quality Management
- Accounting and Financial Management
- Marketing Management
- Management of Technology
- Human Resource Management
- Operations Research
- Structured System Analysis & Design Methodology
- Management Information System
- Industrial and Business Law
- Strategic Management

Effective and efficient management in the industry is vital for enhancing productivity for the competitiveness of a nation. Therefore, Industrial Management plays a vital role to face the stringent competition in future in the midst of the rapid globalization.

DEPARTMENT OF MATHEMATICAL SCIENCES

The main objective of the Department of Mathematical Sciences is to develop the logical and independent thinking power to face new and independent situations which are directly related to the actual life. Therefore, the Department offers two subject streams in Mathematics & Mathematical Modelling and Statistics in the following areas including most demanding disciplines such as Actuarial Mathematics, Operations Research and Time Series Analysis:

- Linear Algebra
- Analysis
- Computational Mathematics
- Numerical Analysis
- Theory of Interest
- Statistical Inference
- Data Analysis and Designing Experiments
- Sampling Methods
- Regression Analysis
- Stochastic Processes and Simulation
- Statistical Laboratory Works

Learning above subject areas will develop the theoretical knowledge as well as the computer skills which support a deeper understanding of Mathematical and Statistical models and their practical implementations.

MAIN LIBRARY

The Wayamba University Library started its full functions as a University Library after 2000. There are two Libraries at Kuliyapitiya and Makandura. The Library at Kuliyapitiya is functioning as the Main Library and serving for the two faculties of Applied Sciences and Business Studies and Finance.

The Main Library has around 39,150* volumes related to the subjects of two Faculties. The collections of periodicals in print version are about 25 titles and all university scholars as well as researchers and undergraduate students and postgraduate students are provided access to online databases. This all web based information users can freely access within the both premises of Wayamba University. The E-Journals information listed below.

  ➢ Emerald http://www.emeraldinsight.com/
  ➢ SAGE Research http://srmo.sagepub.com/
  ➢ Wiley Online http://onlinelibrary.wiley.com/
  ➢ Cambridge University Press http://journals.cambridge.org/
  ➢ Oxford Journals http://www.oxfordjournals.org/

Further users can ask to download useful articles from bellow sites,

  ➢ Taylor & Francis (http://www.tandfonline.com/)
  ➢ Elsevier (http://www.sciencedirect.com/)

Subject related DVDs and CDs are also available for reference in the computer unit at the Library. The Library also adds 1500 – 2000 to its collection every year.

In addition to the Reference and Lending services, Computer laboratory facilities, Staff Development collection, Special collection related to Social, Economical, Cultural, Political background in Sri Lanka, Paper cuttings, Past papers, Theses & students training reports, User Education programmes such as; Library Orientation and Learning skill Development programme covering Online Public Access Catalogue (OPAC) and online searching facilities, Information retrieving, analyzing organizing and presenting techniques with Citations and Reference styles etc. Inter Library Loan, Current Awareness Services and Referral Services are available at the Library.

COMMON ACADEMIC SUPPORT UNITS:

INFORMATION COMMUNICATION TECHNOLOGY (ICT) CENTRE

The Wayamba University of Sri Lanka has two ICT Centers, one in the Kuliyapitiya premises and the other in the Makandura premises. The ICT Center Kuliyapitiya provides computing and information technology resources, services, and support to Kuliyapitiya premises of Wayamba University. It provides IT training programmes for students, staff, and external professionals to improve demanding IT skills. It is committed to support academic activities by promoting on-campus information literacy, and by providing a suitable information technology environment. To ensure the smooth proceeding of the educational and research activities, the center also offers comprehensive services using the latest advances in information technology. These services include operating multiple services, updating and maintaining the Wayamba University Website, the Learning Management System and maintaining networks that from the University's ICT infrastructure.

The University has identified that the literacy in IT is one of the basic skills that makes graduates employable. The literacy in IT is salient in continuing the undergraduate education in Wayamba University of Sri Lanka. The ICT Center provides variety of programs for undergraduates including Diploma and Certificate Courses in Information Technology, Web Designing, Computer Graphics, and Software Programming.

DEPARTMENT OF ENGLISH LANGUAGE TEACHING [FBSF]

A major fact to be emphasized is that the medium of instruction in the Faculty is English. Therefore, a high literacy standard of the language is obviously sought after. The main objective of English Language courses is to develop the proficiency level of English language of the undergraduates to enhance their pursuit of the degree programme successfully and effectively, which would ultimately lead to a better employability.

To achieve the above objective, the English Language Teaching Unit at Kuliyapitiya Premises offers the following courses for the undergraduates of Applied Sciences:

Compulsory Courses:

- Intensive English Course : New entrants to the Faculty
- English Language Proficiency Course I : Level 1 undergraduates
- English Language Proficiency Course II : Level 2 undergraduates

Optional Courses:

- Certificate Course in Business English : Level 3 undergraduates
- Advanced English Proficiency Course : Level 3 undergraduates

STUDENT COUNSELLING

It is understood that students would need the assistance and guidance to sort out many of the problems they would face from time to time during a 3-4 year long stay at the university. Irrespective of the nature of problems or grievances, the Faculty makes arrangements to provide a counselling service for all students of the Faculty.

A team of Student Counsellors/ Mentors is appointed in every academic year from both senior and junior staff of the Faculty, who are willing and prepared to listen to any student matter and provide the utmost guidance and advise to help the students.

The Student Counsellors thus appointed will be notified at the beginning of the academic year and all students are strongly advised to consult them prior to seeking appointments with Heads of Departments or Dean of the Faculty. Any written student request should be addressed to the Assistant Registrar of the Faculty through the Student Counsellor assigned to the student and where necessary through the relevant Head of the Department.

5. SUMMARY OF MODULES OFFERED BY THE DEPARTMENTS OF STUDY

The following convention has been used throughout to describe the significance attached to the modules offered by the Department:

x - Compulsory modules, i.e. the students must offer the module if this symbol appears against it for a particular degree programme and take all examination components of the module. These modules cover the essential subject material for that subject area to be considered as a major subject.

† - If this symbol appears with the code or against a particular module, it will be conducted throughout the academic year.

▼ - Optional modules, i.e. the students can choose such modules at will to fulfil the annual/overall credit requirements.

✱ - Only these modules are available for the students who are not offering the relevant subject as a major subject in the combination.

♣ - One of these modules is offered in the semester

- One of these modules is offered in the semester

5.1 COMPUTING & INFORMATION SYSTEMS

Level	Module Code & Title	B.Sc. (General)	B.Sc. (Joint Major) Major 1	B.Sc. (Joint Major) Major 2	B.Sc. (Special)
1	**Semester I**				
	CMIS 1113 - Introduction to Computers and Operating Systems	x	x	x	x
	CMIS 1123 - Computer Programming I	x	x	x	x
	CMIS 1131 - Practical Computing I	x	x	x	x
	Semester II				
	CMIS 1212 - Computer Programming II	x	x	x	x
	CMIS 1221 - Practical Computing II	x	x	x	x
	Credits from Level I (Cumulative credits)	**10 (10)**	**10 (10)**	**10 (10)**	**10 (10)**
2	**Semester I**				
	CMIS 2113 - Object-oriented Programming	x	x	x	x
	CMIS 2123 - Database Management Systems	x	x	x	x
	Semester II				
	CMIS 2214 - Data Structures & Analysis of Algorithms	x	x	x	x
	Credits from Level 2 (Cumulative credits)	**10 (20)**	**10 (20)**	**10 (20)**	**10 (20)**
3	**Semester I**				
	CMIS 3114 - Data Communication & Comp. Networks	x	x	x	x
	CMIS 3122 - Rapid Application Development	▼	x	▼	x
	CMIS 3134 - Computer Architecture & Compiler Design	-	▼	▼	x
	CMIS 3142 - Computational Methods	-	-	-	x
	CMIS 3153 - Advanced Database Systems	-	-	-	x
	Semester II				
	CMIS 3214 - Software Engineering	▼	x	x	x
	CMIS 3224 - Web Designing and e-commerce	▼	x	x	x
	CMIS 3234 - Computer Graphics and Visualization	-	-	-	x
	CMIS 3242 - Mobile and Ubiquitous Computing	-	-	-	x
	CMIS 3253 - Data Mining	-	-	-	x
	Credits from Level 3 (Cumulative credits)	**4-14 (24-34)**	**14-18 (34-38)**	**12-18 (32-38)**	**32 (52)**
4	**Semester I**				
	CMIS 4114 - Artificial Intelligence		x	x	x
	CMIS 4123 - Advanced Operating Systems		-	-	x
	CMIS 4144 - Distributed and Cloud Computing		x	x	-
	CMIS 4134 - Distributed and Cloud Computing		-	-	x
	CMIS 4152 - Image Processing		▼	▼	-
	CMIS 4142 - Image Processing		-	-	x
	CMIS 4153 - Parallel Computing		-	-	x
	CMIS 4†18 - Research Project		-	-	x
	CMIS 4†24 - Project		x	-	-
	Semester II				
	INDT 4218 - Industrial Training		x (4)	x (4)	-
	CMIS 4216 - Industrial Training		-	-	x
	Credits from Level 4 (Total credits)		**16-18 (50-56)**	**12-14 (44-52)**	**30 (82)**

5.2 ELECTRONICS

Level	Module Code / Title	B.Sc. (General)	B.Sc. (Joint Major)		B.Sc. (Special)
			Major I	Major II	
1	**Semester I**				
	ELTN 1112 - Fundamentals of Electricity and Magnetism	x	x	x	x
	ELTN 1122 - Introduction to Semiconductors	x	x	x	x
	ELTN 1132 - Basic Digital Electronics	x	x	x	x
	Semester II				
	ELTN 1212 - Basic Electronics - Lab	x	x	x	x
	ELTN 1222 - General Physics	x	x	x	x
	Credits from Level 1 (Cumulative Credits)	**10 (10)**	**10 (10)**	**10 (10)**	**10 (10)**
2	**Semester I**				
	ELTN 2112 - Electricity and Magnetism	x	x	x	x
	ELTN 2121 - Electricity and Magnetism - Lab	x	x	x	x
	Semester II				
	ELTN 2213 - Semiconductor Devices	x	x	x	x
	ELTN 2221 - Semiconductor Devices - Lab	x	x	x	x
	ELTN 2232 - Analogue Electronics	x	x	x	x
	ELTN 2241 - Analogue Electronics - Lab	x	x	x	x
	Credits from Level 2 (Cumulative Credits)	**10 (20)**	**10 (20)**	**10 (20)**	**10 (20)**
3	**Semester I**				
	ELTN 3113 - Digital Electronics	x	x	x	x
	ELTN 3121 - Digital Electronics - Lab	x	x	x	x
	ELTN 3133 - Data Acquisition and Signal Processing	▼	x	x	x
	ELTN 3141 - Data Acquisition and Signal Processing – Lab	▼	x	x	x
	ELTN 3†53 - Applied Electronics Laboratory I				x
	Semester II				
	ELTN 3212 - AC Theory	▼	x	▼	x
	ELTN 3222 - Scientific Writing				x
	ELTN 3233 - Microprocessor and Microcontroller Technology	▼	x	x	x
	ELTN 3241 - Microprocessor and Microcontroller Technology - Lab	▼	x	x	x
	ELTN 3252 - Electromagnetic Theory				x
	ELTN 3262 - Power Electronics		▼		x
	ELTN 3272 - Optimization Techniques and Applications	▼	x	▼	x
	Credits from Level 3 (Cumulative Credits)	**4-16 (24-36)**	**16-18 (36-38)**	**12-16 (32-36)**	**25 (45)**
4	**Semester I**				
	ELTN 4114 - Communication Theory and Systems		x	x	x
	ELTN 4122 - Optoelectronics Devices and Fiber Communication Systems		▼	x	x
	ELTN 4131 - Communication Technology - Lab		▼		x
	ELTN 4143 - Programmable Logic Devices		x	x	x
	ELTN 4151 - Programmable Logic Devices -Lab		x	x	x

Course				
ELTN 4†63 - Applied Electronics Laboratory II				x
ELTN 4†78 - Research Project				x
ELTN 4†84 - Research Project		x		
ELTN 4†92 Seminar in Electronics				x
Semester II				
ELTN 4213 - Digital Signal Processing				x
ELTN 4222 - Nano-Technology Devices and Nano-Materials				▼
ELTN 4232 - Data Communication Networks				▼
ELTN 4242 - Solid State Theory				▼
ELTN 4252 - Polymer Electronics				▼
ELTN 4262 - Mechatronics				▼
ELTN 4272 - Embedded Systems				▼
ELTN 4282 - Antenna Design				▼
INDT 4218 - Industrial Training		x (4)	x (4)	
Credits from Level 4 (Total Credits)		**16-19 (52-57)**	**14 (46-50)**	**27-31 (72-76)**

5.3 INDUSTRIAL MANAGEMENT

Level	Module Code/Title	B.Sc. (General)	B.Sc. (Joint Major) Major 1	Major 2	B.Sc. (Special)
1	**Semester I**				
	IMGT 1112 - Principles of Management *	x	x	x	x
	IMGT 1122 - Business Economics	x	x	x	x
	IMGT 1132 - Entrepreneurial Dynamics*	x	x	x	x
	Semester II				
	IMGT 1212 - Principles of Accounting	x	x	x	x
	IMGT 1222 - Marketing Management*	x	x	x	x
	Credits from Level 1 (Cumulative Credits)	**10 (10)**	**10 (10)**	**10 (10)**	**10 (10)**
2	**Semester I**				
	IMGT 2112 - Operations Management I	x	x	x	x
	IMGT 2122 - Cost & Management Accounting	x	x	x	x
	IMGT 2132 - Service Industry Concepts *	x	x	x	x
	Semester II				
	IMGT 2212 - Human Resource Management*	x	x	x	x
	IMGT 2222 - Operations Research I *	x	x	x	x
	Credits from Level 2 (Cumulative Credits)	**10 (20)**	**10 (20)**	**10 (20)**	**10 (20)**
3	**Semester I**				
	IMGT 3112 - Operations Management II	x	x	x	x
	IMGT 3122 - Organization Development	▼	x	x	x
	IMGT 3†34 - Design & Development of Computer Based Project		x†		x†
	IMGT 3142 - Structured System Analysis & Design Methodologies and Management Information Systems		▼		x
	IMGT 3153 - Environmental Management based on ISO 14001				x
	IMGT 3162 - Business & Industrial Law	x	x	x	x
	Semester II				
	IMGT 3212 - Operations Research II	▼	x	x	x
	IMGT 3222 - Management of Technology	▼	x	x	x
	IMGT 3232 - International Business	▼	x	x	x
	IMGT 3242 - Project Management				x
	IMGT 3252 - Industrial Technology*	▼	▼	▼	x
	Credits from Level 3 (Cumulative Credits)	**4-14 (24-34)**	**16-20 (36-40)**	**12-14 (32-34)**	**25 (45)**
4	**Semester I**				
	IMGT 4†18 - Research Project				x†
	IMGT 4123 - Environmental Management based on ISO 14001		x	x	
	IMGT 4133 - Computer based Modelling & Simulation		x	x	▼
	IMGT 4142 - Supply Chain Management		x	x	x
	IMGT 4152 - Productivity Techniques		x		x
	IMGT 4164 - Strategic Management				x
	IMGT 4172 - Strategic Management		x	x	
	Semester II				
	IMGT 4213 - Advanced Marketing Management				x
	IMGT 4222 - Applied Econometrics				x
	IMGT 4234 - Advanced Operations Research				x
	IMGT 4242 - Financial Management				x
	INDT 4218 - Industrial Training		x(4)	x(4)	
	Credits from Level 4 (Total Credits)		**16 (52-56)**	**14 (46-48)**	**27 (122-125)**

Other Preferables

STAT 3124	Time Series Analysis
STAT 3252	Data Analysis & Preparation of Statistical Reports

N.B. **As the students are selected for the Degree Programme at end of Level 2, they will be offering two more subjects upto Level 2 from among Computing & Information Systems, Electronics, Mathematics & Mathematical Modelling and Statistics conducted by the other Departments that account for 40 credits.**

5.4 MATHEMATICS & MATHEMATICAL MODELLING AND STATISTICS

Level	Module Code/Title	B.Sc. (General)		B.Sc. (Joint Major) MATH & MMOD and STAT		B.Sc. (Special)
				Major 1	Major 2	
1	**Semester I**					
	MATH 1112 - Introduction to Mathematics I	x		x	x	x
	STAT 1113 - Introduction to Probability and Statistics I	x		x	x	x
	Semester II					
	MATH 1212 - Introduction to Mathematics II	x		x	x	x
	MATH 1222 - Differential Equations	x		x	x	x
	STAT 1213 - Introduction to Probability and Statistics II	x		x	x	x
	Credits from Level 1 (Cumulative Credits)	**12 (12)**		**12 (12)**	**12 (12)**	**12 (12)**
2	**Semester I**					
	MATH 2114 - Linear Algebra I	x		x	x	x
	STAT 2112 - Statistical Inference I	x		x	x	x
	Semester II					
	MATH 2213 - Linear Algebra II	x		x	x	x
	STAT 2212 - Design of Experiments	x		x	x	x
	STAT 2222 - Regression Analysis	x		x	x	x
	Credits from Level 2 (Cumulative Credits)	**13 (25)**		**13 (25)**	**13 (25)**	**13 (25)**
3	**Semester I**	MATH & MMOD	STAT	MATH & MMOD and STAT		
	MATH 3114 - Advanced Calculus			▼	▼	x
	MMOD 3113 - Mathematical Methods	x		x	x	x
	MMOD 3124 - Mathematical Models	x		▼	▼	▼
	STAT 3112 - Statistical Inference II		x	x	▼	x
	STAT 3124 - Time Series Analysis		x	x	x	x
	Semester II					
	MATH 3214 - Discrete Mathematics	▼		▼	▼	▼
	MMOD 3214 - Numerical Methods	x		x	x	x
	MATH 3224 - Applied Number Theory			▼		x
	STAT 3212 - Statistical Techniques		x	▼	▼	x
	STAT 3223 - Operations Research		x	▼	▼	▼
	STAT 3232 - Data Analysis & Preparation of Statistical Reports		x	▼	▼	x
	STAT 3243 - Theory of Interest		▼	▼	▼	▼
	Credits from Level 3 (Cumulative Credits)	**11-15 (24-28)**	**13-16 (25-28)**	**13-39 (38-64)**	**11-35 (36-60)**	**25-39 (50-64)**
4	**Semester I**					
	MATH 4114 - Complex Variables					x
	MATH 4124 - Functional Analysis			▼	▼	▼
	MATS 4†14 - Project			x†		
	MATS 4†28 - Research Project					x
	STAT 4114 - Stochastic Processes			x	x	x
	STAT 4124 - Quality Control			▼	▼	▼
	STAT 4134 - Actuarial Mathematics			x	x	x
	Semester II					
	MATH 4214 - Partial Differential Equations					x
	MATH 4224 - Measure Theory					x
	STAT 4214 - Multivariate Analysis					▼
	INDT 4218 - Industrial Training			x(4)	x(4)	
	Credits from Level 4 (Total Credits)			**16-24 (54-84)**	**12-20 (48-80)**	**28-40 (78-104)**

5.5   ENGLISH

The English Language Teaching Unit (ELTU) at Kuliyapitiya Premises is committed to improve the English language competency of the undergraduates from the very inception as they pursue the degree programme in English medium. The ELTU offers the following courses to achieve the above objective as the successful performance of the students depends on the high standard of literacy in English Language.

Compulsory Courses:

➢ **Intensive English Course:**

- A short Intensive English Course would be conducted for the new entrants before the commencement of the academic programme depending on the availability of time after the students are admitted to the Faculty.

➢ **ELPC 1†10 - English Language Proficiency Course I:**

- conducted throughout the academic year at Level 1.
- in addition to the continuous assessments during the course, the English Language Proficiency Test I (ELPT I) will be held at the end of Semester II at Level 1.
- a partial requirement for all degree programmes, i.e. the degree will not be awarded until the student obtains a minimum of an ordinary pass at ELPT I.

➢ **ELPC 2†20 - English Language Proficiency Course II:**

- conducted throughout the academic year at Level 2.
- in addition to the continuous assessments during the course, the English Language Proficiency Test II (ELPT II) will be held at the end of Semester II at Level 2.
- a partial requirement for all degree programmes, i.e. the degree will not be awarded until the student obtains a minimum of an ordinary pass at ELPT II.

N.B.   After following ELPC 1†10 and ELPC 2†20, the students are expected to reach the Band 5 of the University Test of English Language (UTEL – Band 5).

Optional Courses:

➢ **Certificate Course in Business English:**

- a professional course conducted during Semester II of the academic year at Level 3.
- a separate certificate will be issued by the Examination Branch to the students who complete the course successfully.

➢ **Advanced English Proficiency Course:**

- enrollment is limited for only the best performers at ELPT I and ELPT II.
- an optional course conducted during semester I at Level 3.
- the aim is to prepare students to be confident enough in all four major skills of English Language and to perform well at any standard examination both at local and international level such as TOFEL and IELTS.

- at the end of the course the students would be able to follow with confidence any higher degree programme of study conducted in English medium at local or foreign Higher Educational Institutes.
- a separate certificate will be issued by the Examination Branch to the students who complete the course successfully.

N.B. **At the end of Level 3, the students who have followed the above optional courses are expected to reach Band 6 of the University Test of English Language.**

5.6 ENHANCEMENT/ AUXILIARY COURSES/ NON-CREDIT COURSES

(a) These modules are indicated by ✱ ' in each subject area and provide the students, who are not offering it as a major subject, the opportunity to obtain basic knowledge and skills in another subject area outside their original combinations. Such modules may be offered by a student if permitted by the semester time table.

Accordingly, the modules with s in the following subject areas will form the auxiliary modules for each combination:

Combination	Auxiliary Subject Area
COMB 1	Industrial Management
COMB 2	Computing & Information Systems
COMB 3	Electronics

N.B. The auxiliary courses will not be taken into account in computing the final GPA of a student. The grades obtained shall be mentioned in the academic transcript.

(b) Career Guidance

There will be a programme to prepare the undergraduates to take on the challenges in looking for a suitable employment upon graduation. The objectives shall include to provide the undergraduates with an insight into the expectations in the corporate world, career opportunities in the respective fields and trends in the job market etc.

This will be offered for all students reading for any degree programme during Semester II at Level 3. **The participation and satisfactory performance upon the end of the course will be a compulsory partial requirement for awarding the degree.**

The Faculty Coordinator for Career Guidance shall design and organize this course annually with inputs from resource persons from the universities and industries.

5.7 DIPLOMA/ADVANCED CERTIFICATE IN INFORMATION TECHNOLOGY

The ICT Center-Kuliyapitiya recently introduced a Diploma in Information Technology for undergraduates of the Faculty of Applied Sciences. It is a two-year program, which is conducted in parallel to the academic program of the Faculty. The programme is targeted for undergraduates of combination 2 (who do not follow the subject streams offered by the Department of Computing & Information Systems (CMIS)), and it

enhances students' basic IT skills that are required to perform academic program of the Faculty. Furthermore, valuable Certificates are offered for those who successfully complete the programme and it would provide students with added qualifications for highly competitive job market.

Note: Students of combination 1 and 3 can also follow the programme to obtain the Diploma Certificate in IT. Interested students may contact the Director/ICT center Kuliyapitiya.

5.7.1 Details of the Programme

The duration of the Diploma programme is four-semesters (2 academic years). During the first two semesters students will learn basic and essential IT skills. These skills are necessary for successfully complete the undergraduate degree programme of the Faulty where students have to write reports, make interactive presentations using PowerPoint, and analyze data using different software in their projects.

During the third and fourth semesters, students those who wish to learn more than just essential IT skills, can explore a wide range of subjects related to the computer science. With the knowledge gained through these modules, student will become more competent among other graduates who have followed IT related subject streams, when they are competing in the job market.

Students have the option to quit the program after successfully completing the first two semesters with the Advanced Certificate in Information Technology. However, students are strongly advised to obtain the Diploma Certificate completing the entire programme successfully.

Details of the four modules offered under the programme are given bellow:

Semester I:
1.   ICT 111 IT Fundamentals
     Main Topics: Fundamentals of Computer Technology, Operating Systems: Windows & Linus, MS Office Application Packages (MS Word, MS Excel), Web Applications, Computer Peripheral Devices.

     Evaluation:
     * Continuous assessment 40%
     * End-semester examination 60%

Semester II:
2.   ICT 122 IT Essentials
     Main Topics: Introduction to Computer Programming using C, Web Designing Basics, Creation of Interactive presentation slides using MS Powerpoint, Information Management using MS Access, and Introduction to PC Hardware.

     Evaluation:
     * Continuous assessment 40%
     * End-semester examination 60%

Semester III:
3. ICT 211 IT for Advanced Users
   Main Topics: Computer Networks, Computer Security, Web Application Development, E-commerce, and Introduction to DBMS.

   Evaluation:
   - Continuous assessment 40%
   - End-semester examination 60%

Semester IV:
4. ICT 222 IT for Designer & Developers
   Main Topics: Object Oriented Programming using Java, Graphics Design, Projects

   Evaluation:
   - Continuous assessment 20%
   - Project 40%
   - End-semester examination 40%

Grading

Numeric Score	Grade	Performance
80 & Above	A	Distinction Pass
70…79	B	Merit Pass
60…69	C	Credit Pass
50…59	S	Simple Pass
Below 49	F	Fail

Note: A candidate shall be eligible to obtain a Credit, Merit, or Distinction Pass for a course module, only if he/she has taken the examination at the very first attempt.

Repeat Examinations
There will be no repeat examinations for any module. Students, who are absent for an examination, or those who failed a particular module, may sit for the examination of the module in the following year.

Recommendation:

It has been accepted that every graduate should have sufficient IT skills in all sort of employments. Therefore, passing the first two modules of the Diploma/Advanced Certificate in IT is strongly recommended for the students who follow Combination 2 (those who do not take the subject streams offered by the Department of Computing & Information Systems) in this Prospectus.

6 ACADEMIC PROGRAMME

6.1 GENERAL

All four Departments of the Faculty offer course modules in the following subject area(s) indicated against their names:

Department	Subject Area(s)	
Computing & Information Systems	Computing & Information Systems	[CMIS]
Electronics	Electronics	[ELTN]
Industrial Management	Industrial Management	[IMGT]
Mathematical Sciences	Mathematics & Mathematical Modelling, Statistics	[MATH & MMOD, STAT]

All Departments contribute to the following degree programmes by offering a number of course modules from the above subject area(s):

- ❖ **3-year B.Sc. (General) Degree**
- ❖ **4-year B.Sc. (Joint Major) Degree in *Major 1* and *Major 2***
- ❖ **4-Year B.Sc. (Special) Degree in *Subject Area* ***

The four academic years are indicated as Level 1, Level 2, Level 3, and Level 4 and each student shall be selected into one of the following 3-subject combinations based on the criteria described in section 6.2:

COMB 1   - MATH & STAT + CMIS + ELTN
COMB 2   - MATH & STAT + ELTN + IMGT
COMB 3   - MATH & STAT + IMGT + CMIS

Based on the overall performance as at end of Level 2 (Semester II), the students can apply for the 4-Year B.Sc. (Joint Major) Degree and the available 4-Year B.Sc. (Special) Degree Programmes in the relevant subject areas within the combination. The selection criteria is described in Section 6.2.

6.2 COMBINATIONS AND SELECTION CRITERIA FOR COMBINATIONS/ DEGREE PROGRAMMES

(a) 3-Year B.Sc. (General) Degree

The students, on admission to the Faculty, can apply for the following combinations in priority order:

COMB 1	-	MATH & STAT + CMIS + ELTN
COMB 2	-	MATH & STAT + ELTN + IMGT
COMB 3	-	MATH & STAT + IMGT + CMIS

If there is a higher demand for a particular combination than the capacity of the Faculty, the maximum number of students will be selected based on the district quota. That is, the number of placements for a combination shall be decided based on the percentage of registration from each district and the Advanced Level Z-Score. The students not selected for their first preference shall be enrolled based on their second or third preference.

The students who fail to apply in time or who register after the initial selection shall be placed in other combinations depending on the availability of vacancies.

The students preferring a 3-Year Degree and those failing to qualify for the 4-year Degrees at Level 2 can proceed within the same combination of subjects by selecting Mathematics and Statistics, as separate major subjects at Level 3, and read for the 3-Year B.Sc. (General) Degree.

Accordingly, the students could proceed towards the 3-Year B.Sc. (General) Degree in one of the following combinations:

COMB 1A	:	MATH	+	CMIS	+	ELTN
COMB 1B	:	STAT	+	CMIS	+	ELTN
COMB 1C	:	MATH	+	STAT	+	CMIS
COMB 2A	:	MATH	+	ELTN	+	IMGT
COMB 2B	:	STAT	+	ELTN	+	IMGT
COMB 2C	:	MATH	+	STAT	+	ELTN
COMB 3A	:	MATH	+	IMGT	+	CMIS
COMB 3B	:	STAT	+	IMGT	+	CMIS
COMB 3C	:	MATH	+	STAT	+	IMGT

Note: MATH includes modules from both Mathematics and Mathematical Modelling at Level 3.

(b) 4-Year B.Sc. (Joint Major) Degree in *Major 1* and *Major 2*

This degree involves continuation in two subject areas called Major 1 and Major 2 from Level 3 and onwards with an outbound 06-month Industrial Training Programme during the last semester at Level 4. A minimum total of 120 credits is required to qualify for the degree over the four year period of which a minimum of 45 credits must be in each of the two subject areas: Major 1 and Major 2 (i.e. a minimum 90 credits in both subject areas)

Combinations

The available combinations are listed below together with the credit distribution between the two major subjects and the third subject that was followed till end of Level 2.

Combination	Major 1 [Max. Credits]		Major 2 [Max. Credits]		Subject 3 [Levels 1&2]	Total Credits
COMB: 1A	CMIS	[52]	ELTN	[46]	[25]	123
1B	CMIS	[52]	MMST	[48]	[20]	120
1C	CMIS	[52]	IMGT	[46]	[25]	123
COMB: 2A	ELTN	[52]	CMIS	[46]	[25]	123
2B	ELTN	[52]	MMST	[48]	[20]	120
2C	ELTN	[52]	IMGT	[46]	[25]	123
COMB: 3A	IMGT	[52]	ELTN	[46]	[25]	123
3B	IMGT	[52]	MMST	[48]	[20]	120
3C	IMGT	[52]	CMIS	[46]	[25]	123
COMB: 4A	MMST	[54]	CMIS	[46]	[20]	120
4B	MMST	[54]	ELTN	[46]	[20]	120
4C	MMST	[54]	IMGT	[46]	[20]	120

Note: MMST indicates Mathematics, Mathematical Modelling and Statistics.

Selection Criteria

The students who wish to follow a 4-Year Joint Major Degree must reach the following threshold level as at end of Level 2 (Semester II) of the academic programme:

(i) earn overall grade point average of 2.5 from all the modules registered **and**

(ii) pass both English Language Proficiency Tests held at the end of Level 1 and Level 2 **and**

(ii) pass the interview conducted by the relevant Department (Major 1) to assess the student's contribution to academic societies, participation in extracurricular activities, communication skills, and disciplinary conduct etc. and other specific needs of the Departments of majoring subjects.

The Major 1 subject area provides the students with the full complement of modules than the modules available for students offering the same subject as Major 2.

Due to limited resources, the intake for some Major 1 subject areas may be limited depending on the capacity at the Departments for that academic year. Therefore, if the demand is higher than the available vacancies, the students with the highest Y-Scores, defined below, will be selected into Major 1.

$$Y = 0.6x(A) + 0.4x(B)$$

where,
- A – the average marks of the modules from the subject area chosen by the student for Major 1 at Level 1 and Level 2,
- B – the average marks of the other modules offered by the student at Level 1 and Level 2.

The Major 1 and Major 2 subjects for which a student is selected will be notified before the commencement of the academic year at Level 3. The modules to be selected apart from the two major subject areas should be in accordance with the flexibility provided in the respective semester time tables.

Criteria to Accommodate Extra Curricular Activities/ Achievements

Compulsory
Student should have minimum GPA 2.4.

Priority 1:
Student should possess a patent(s) after being enrolled at the University.

Priority 2:
Student should have peer-reviewed Journal/Conference publications after being enrolled at the University.

Priority 3:
Student should be a winner (one of first three places) of relevant subject related international, national or inter-university competitions such as Exhibitions.

Priority 4:
Student should be a winner (one of three places) of international, national or inter-university competitions such as Sports, English Debates, etc.

Changing the Major Subjects

If a student wishes to change the Major 1 subject area to which he/she has been selected by the Faculty, such requests should be submitted to the Assistant Registrar of the Faculty **within three (03) days** from the commencement of the academic year at Level 3.

Although changing the choice of Major 2 subject area would be possible, changing the Major 1 subject area would be possible only if the vacancies are available and the student has reached the required level of competence at Level 1 and Level 2.

If such a request is allowed, the student should submit new registration forms.

Mutual changes will not be allowed under this provision.

Once the major subjects are finalized, the student will be considered as belonging to the Department of Study that offers his/her Major 1 subject area.

(c) 4-Year B.Sc. (Special) Degrees

These degree programmes will be very competitive for the students aspiring to continue their studies into postgraduate level and to become researchers or specialists in one subject area after graduation. Only a very limited number of students who record the best performance in a particular subject area together with other qualifications specified by the Departments would be selected for the special degree programmes, which include a research project in the final year.

The following special degree programmes are available for the students admitted to the academic year 2014/2015 and onwards.

❖ **4-Year B.Sc. (Special) Degree in Applied Electronics**
❖ **4-Year B.Sc. (Special) Degree in Industrial Management**
❖ **4-Year B.Sc. (Special) Degree in Mathematics with Statistics**
❖ **4-Year B.Sc. (Special) Degree in Computer Science**

SELECTION CRITERIA

The prospective students should satisfy the following entry qualifications as at end of Level 2 of the academic programme:

(i)   obtain grade of 'C' or better for all the course modules registered **and**

(ii)   earn overall GPA of 2.5 and a GPA of 3.0 for the subject of specialization
                                        or
        earn a GPA of 3.7 for the subject of specialization
                                      and

(iii)   pass both English Language Proficiency Tests held at the end of Level 1 and Level 2 **and**

(iv)   pass an interview conducted by the Faculty/ Departments to assess the student's contribution to academic societies, participation in extracurricular activities, communication skills, and disciplinary conduct etc. and other specific needs of the Departments.

Changing the Area of Specialization

If a student is selected to more than one special degree programme, he/she should inform the preference to the Assistant Registrar of the Faculty within three (03) days from the commencement of the academic year at Level 3. Once the student is registered to a special degree programme, he/she will not be allowed to change it and the relevant registration forms should be submitted.

All students reading for a special degree will be considered as belonging to the Department that conducts the degree programme and should obtain the approval of the Head of Department for the modules he/she wishes to offer, prior to being registered at each Level 3 and level 4.

6.3 MEDIUM OF INSTRUCTION

The medium of instruction of all degree programmes will be English and therefore it should be noted that all examination work and material will be set in English medium and the answers should also be given in English medium.

6.4 REGISTRATION AND DE-REGISTRATION OF MODULES

As soon as the Time Table for semester I is announced, all students can get an idea about the modules for which they can register for the academic year without facing any clashes in their personal time tables.

At the beginning of each academic year, all students should register for the modules they wish to follow during the academic year by submitting a **Course Registration Form** obtainable from the Faculty Office. The Course Registration Form should be channeled through the Student Counsellor assigned to the student to be received by the Assistant Registrar of the Faculty Office within the first two weeks (02) of the academic year.

No student shall be permitted to change his or her choice of modules or cancel a registration after the first two weeks of the academic year.

N.B. Only the registered students shall be permitted to sit for the examination components of the modules.

Any registration for a course module that is not relevant to the combination offered by the Faculty will automatically be cancelled.

6.5 VALIDATION OF STUDENTS REGISTRATION

6.5.1 Repeat Examination
Renewal of Registration shall be compulsory to sit for repeat examinations.

6.5.2 Deferment
Students shall continue their registration to be eligible to request deferment.

6.6 ANNUAL & TOTAL MINIMUM/MAXIMUM CREDIT REQUIREMENTS

The minimum and maximum number of credits a student can take in an academic year are 30 and 33 respectively. These are excluding the course units to be repeated and the enhancement/auxiliary modules. It is the responsibility of the students to ensure that they are registered for the modules that account for the minimum annual credit requirement.

These annual credit requirements shall ensure that the student fulfills the following minimum/ maximum total credits for the respective following degree programmes:

		Minimum	Maximum
3-Year B.Sc. (General) Degree	-	90 credits	99 credits
4-Year B.Sc. (Joint Major) Degree	-	120 credits	132 credits
4-Year B.Sc. (Special) Degree	-	120 credits	132 credits

6.7 ATTENDANCE

As all degree programmes are offered full-time, the students are expected to attend all academic activities regularly and be active participants during their stay at the university. There is obvious correlation between the attendance and examination results. The payment of Mahapola/ Bursaries are determined based on satisfactory attendance and performance of the students. Therefore, a minimum of 80% attendance should be registered by the students for all academic activities such as lectures, tutorial classes, practical classes etc.

However, the students representing the Faculty or the Wayamba University in sports or taking part in other extracurricular activities with prior approval from the Heads of Departments/Dean could be excused from the scheduled academic activities upon producing evidence of participation at such events to the Faculty Office.

7 EVALUATION CRITERIA

7.1 CREDIT

A credit is a time based quantitative measure assigned to a module and indicates the rating of the module in working towards a degree.

A credit is defined as follows for modules with lectures, practicals, and both lectures & practicals:

15 hours	for modules consisting of	lectures only,
30-45 hours	for modules consisting of	laboratory only,
10 lecture hours & 15 laboratory hours	for modules consisting of	both lectures and laboratory

7.2   Testing of Modules – Method of Evaluation

7.2.1 General

The performance of a student for a module is normally evaluated by a semester-end examination and continuous assessments which may consist of assignments, reports, presentations, mid-semester tests etc. as appropriate to the module.

The exact method of evaluation will be announced by the relevant lecturer at the commencement of the module.

7.2.2 Structure of Modules & Papers

Some modules may consist of a practical component and a theory component of appropriate credit values, which shall be evaluated separately.

Example: The course on Electricity and Magnetism consists of two modules namely,
ELTN 2113 – Electricity and Magnetism
ELTN 2121 - Electricity and Magnetism – Laboratory

A student selecting a theory module should necessarily offer the corresponding practical module as well.

Example: A student selecting the module ELTN 2113 must offer ELTN 2121 as well.

The duration of a semester-end examination paper is determined on the basis of the credit value of the module and is usually distributed as follows:

- 2 credit theory paper   –   2 hours,
- 3 credit theory paper   –   2 ½ hours,
- 4 credit theory paper   –   3 hours, and
- a practical examination   –   2-3 hours.

7.2.3 Evaluation of Modules

Though a greater weighting is given to the semester-end examination, the performance at continuous assessments is equally important because it determines the eligibility for sitting the semester-end examination and also accounts for a better overall grade for the module.

The overall mark is usually based on the following allocation:

Overall mark (100) = 70% (semester-end examination) + 30% (continuous assessments)

However, there may be exceptions to the above formula depending on the nature of course module.

7.2.4 Absence for Continuous Assessments

Medical certificates will not be considered for continuous assessments and a student will not receive any marks for the components he/she fails to attend. The absence at continuous assessments will automatically deny the eligibility for sitting the semester-end examination of that module and such a student will belong to the "Not Eligible" category. A student who becomes Not Eligible must redo the continuous assessments at the next available opportunity to be eligible to repeat the module.

7.3 ELIGIBILITY FOR SITTING THE EXAMINATIONS

Proper Students:

The eligibility for sitting the semester-end examination of a module depends heavily on the active participation of the student in the academic activities arranged by the Department throughout the semester. A regular participant is expected to perform reasonably well at the continuous assessments held during a course.

It is compulsory that a student obtains a minimum weighted mean score of 30% from all continuous assessment components of a module, to be eligible to sit for the semester-end examination of a module. A student, who fails to get a minimum weighted mean score of 30% for continuous assessments, will fall into the 'Not Eligible' category and shall not be issued with admission in respect of the module concerned.

Such students must resubmit continuous assessments and earn eligibility from the relevant Department for obtaining admission to sit the next immediately available examination.

Repeat Students:

All students who earned eligibility by submitting continuous assessments but failed to reach the normal pass mark at the overall evaluation after the end-semester examination, will be considered as repeat students.
Such students need not resubmit continuous assessment assignments to obtain admission for subsequent attempt(s) but must resit the next immediately available end-semester examination.

The marks obtained for continuous assessment at the proper attempt will be carried forward to be combined with the marks at the end of semester examination(s) of subsequent resitting(s).

N.B. **(1) The highest grade awarded to a student repeating an examination of any module will be C. In the event a student obtains a lower grade while attempting to better the grade, he/she will be entitled to the previous grade.**

(2) Students who sit for repeat examinations after the compulsory 3/4 year period of registration for a given degree programme should re-register for the particular academic year in order to maintain their studentship and they will be required to pay a nominal fee for such registration.

7.4 PROCEDURE FOR SUBMITTING MEDICAL CERTIFICATES
(As approved by the Senate of the Wayamba University of Sri Lanka)

1. If a student fails to attend academic activities due to a medical reason, he/she should produce a medical certificate issued by one of the following:

    *   the University Medical Officer,
    *   a government hospital,
    *   a private medical certificate issued by

        (i)   a consultant or
        (ii)   an MBBS qualified doctor or
        (iii)   Ayurvedic physician registered in the Ayurvedic Medical Council which is recommended by the University Medical Officer.

2. **However the medical certificate submitted in respect of an examination matter, should be obtained from a government hospital or by the University Medical Officer.**

3. Every medical certificate should have a date stamp from the Dean's Office and should be entered in the students' medical leave register maintained by the Dean's office and should be sent through proper channel.

4. The student concerned should inform of his/her absence immediately, he/she should tell the illness and should submit a medical certificate within 4 days of his/her return to the Faculty. The medical certificate submitted thereafter will be considered as late and no arrangements will be made to send them for revising the attendance for lectures, tutorials, practicals, and any other academic activities.

5. If a student takes medical leave in excess of 10 days per month, he/she should bring a Government Medical Certificate or should inform the University Medical Officer with valid clinical documents. In such situation, student is liable to be summoned before the University Medical Officer to furnish the reasons for leave. If such student fails to provide the evidence for genuineness of medical leave, his/her medical leave period is subject to revision by the University Medical Officer.

N.B. Under exceptional circumstances, if a student was not able to meet the deadline mentioned above, he/she could send his/her appeal to the Dean to be considered by the Faculty Board and the Senate with the observation of the University Medical Officer. The respective Faculty should obtain the observation of the University Medical Officer before reporting the matter to the Faculty Board and the Senate.

7.5 NUMBER OF ATTEMPTS FOR SITTING THE EXAMINATION

A student shall not be permitted more than three (03) consecutive sittings for the examination of modules conducted at the last academic year without a valid reason substantiated by documentary evidence acceptable to the Faculty Board.

B.Sc. (General) Degree

The students shall not be permitted to re-sit for an examination if he/she has completed a period of five (05) academic years from the date of admission to the University under any circumstances (i.e. even with medical certificates).

All B.Sc. (Joint Major) Degrees and All B.Sc. (Special) Degrees

The students shall not be permitted to re-sit for an examination if he/she has completed a period of six (06) academic years from the date of admission to the University under any circumstances (i.e. even with medical certificates).

7.6 PROVISION FOR RE-SCRUTINIZING OF MARKS AND GRADES OF UNDERGRADUATES

Policy Guidelines

➢ All marks and grades obtained by a student at any examination (i.e. in-course assessment, assignment, semester examination, final examination, etc.) must be free of any errors of addition, computation and transcription.

➢ Provisions shall be made for undergraduate students to submit request for verification of their examination marks and grades, if they wish to do so, particularly for the end-semester examinations and Final Examination.

➢ **However, the examiners' discretion to allocate marks for the answers presented in the answer scripts for the question(s) presented in the question paper, based on the pre-determined criteria and/or model answer expected shall not to be undermined and hence the verification process will be limited only to check for accuracy of addition, computation and transcription (ACT Verification) and not for re-marking of scripts.**

➢ The provision for requesting re - scrutinization of marks and grades shall be limited only during the 2 weeks immediately following the release of results of an examination. As the cost of re-scrutinization process must be borne by the student, a non-refundable fee, calculated on the basis of actual cost of re-scrutiny process shall be levied on the student.

➢ The Dean of the Faculty in consultation with the Chief Examiner of the examination shall convene Results Verification Board, constituted as prescribed by these by-laws and verification of results must be conducted in accordance with the guidelines prescribed herein.

- If the marks and grades are not changed, the candidate shall be notified by the Dean through SAR/AR of the Faculty after the meeting of the Results Verification Board. However, if the marks and grades are changed, the outcome of the verification shall be notified to the candidate (s) only after the ratification of results by the Special Result Board of the Faculty in the case of end-semester examination. Whereas in the case of Final Examination, amended results should only be released after obtaining the approval of the Senate and Council of the University.

- The results issued to the student (s) following the re-scrutiny of marks and grades shall be the final and no more requests shall be entertained thereafter.

Procedures

- SAR /AR of the Faculty should notify the students of the relevant examination the period during which the requests for verification of results are entertained by displaying a notice in the Notice Board of the Deans' Office.

- A payment of Rs. 500/= (subject to revision) per course/subject of an end – semester examination shall be charged for verification of the marks and grades and the issue of application forms (Annexure 1) must be done only upon submission of receipt for the prescribed payment.

- The Dean shall convene the Results Verification Board meeting for verification of marks/ grade within 3 working days upon closure of the applications.

- The Results Verification Board shall consist of the following persons:
  1. Dean of the faculty (convener)
  2. Head of Department (s)
  3. Chief Examiner (if applicable)
  4. Examiners in-charge of each subject/paper

- When the Head is a Chief Examiner/Examiner in charge of each examination / subject/paper, another member from the same Department can be called for the Results Verification Board.

- The Head of Department in-charge of the relevant course (s) / subject(s) shall present the individual marks /grades sheets for different components of the examination (s) (i.e. written, oral, laboratory, continuous assessment, etc.) and the answer scripts for scrutiny of the Results Verification Board.

- The Results Verification Board should proceed to check the accuracy of addition, computation and transcription of results (ACT Verification).

- If the number of applications received is too large the Dean of the Faculty in consultation with the Chief Examiner can appoint relevant Sub-Committees for verification of marks and grades. In such instances verified results should be tabled at the Results Verification Board For ratification.

- If there is no change of grades, the Dean of the Faculty through the SAR/AR of the Faculty should inform the candidate (s) soon after the Results Verification Board meeting.

- A Special Results Board should be held within five working days to ratify the results if a revision of marks /grades is necessary and the decision of the Special Results Board shall be the final.

- If the marks and grades are changed, in the case of end-semester examination the outcome of the verification shall be notified to the candidate (s) following the ratification of amended results by the Special Results Board of the Faculty whereas in the case of final examination, amended results ratified by the Special Results Board further be approved by the Senate and Council of the University before it is released to the candidate (s).

- SAR/AR of the Faculty should maintain a record of all verification applications and the outcome of all applications and should submit a report to the Faculty Board after completion of re-scrutiny process.

Wayamba University of Sri Lanka

Application Form for Verification of Examination Marks & Grades.

Faculty of ………………………………………

1. **Details of the Candidate**

Name of the Candidate	
Registration No	
Year	Semester	

2. **Assessment (s) to be verified**

End Semester/Final Examination	Course/Subject	Marks Received (If applicable)	Grade Received

Total amount paid: Rs………….(at the rate of Rs. 500/-per course/ Subject/ Examination): (Original receipt should be attached)

Date: ……………..   Signature of the Candidate: …………………

FOR OFFICE USE :

Results after Verification

End Semester/Final Examination	Course/Subject	Marks Received	Grade received	Changed/Not Changed

Verification Board Members :   **Date of Verification: …………….**

Name	Designation	Signature

Note :   In the case of final examination relevant minutes of the Special Result Board and the Senate must be attached.

8 CRITERIA FOR THE AWARD OF DEGREES & HONOURS

8.1 GRADING SYSTEM

Letter grades based on the grade point system and corresponding percentage marks, as illustrated in the Table below will be used to express the performance of a student at each module.

Range of Marks	Grade	Grade Point Value	Description
85 - 100	A+	4.0	Superior Performance [a]
70 - 84	A	4.0	Excellent
65 - 69	A-	3.7	Very Good
60 - 64	B+	3.3	Good, clearly above average
55 - 59	B	3.0	Above average
50 - 54	B-	2.7	Average performance
45 - 49	C+	2.3	Quite Satisfactory
40 - 44	C	2.0	Pass and possesses basic understanding of the subject matter [b]
35 - 39	C-	1.7	Satisfactory
30 - 34	D+	1.3	Weak
25 - 29	D	1.0	Quite Weak
00 - 24	E	0.0	Very weak
	I	0.0	Incomplete [c]

(a) Grade, A^+, represents superior performance, showing comprehensive understanding of the subject matter.

(b) A student satisfying continuous assessment requirements and failing to sit the semester-end examination receives an incomplete grade "I". By repeating only the semester-end examination, the grade can be improved to a maximum of "C" grade.

A student registered for a module but failing to sit for continuous assessments or unable to obtain examination eligibility will also be given the grade I.

(c) A student who fails to sit for either the Semester-End Practical Examination or the Semester-End Theory Examination of a course module in CMIS will receive a Grade of I, and the student is required to sit only for the missed component in the next attempt. The maximum grade given for the course module when the student has sat for the missed component in the next attempt is C, unless the reason for absence is accepted by the Faculty Board.

8.2   GRADE POINT AVERAGE

Grade Point Average (GPA) is the credit-weighted arithmetic mean of the Grade Point Values, which is determined by dividing the total credit-weighted Grade Point Value by the total number of credits. GPA shall be computed to the second decimal place.

Example: A student who has completed one course unit with 2-credits, three course units each of 3-credits and two course units each of 1-credit with grades, A, C, B, D, B- and A+ respectively would have the GPA of 2.52 as calculated below.

$$= \frac{(2 \times 4.0) + (3 \times 2.0) + (3 \times 3.0) + (3 \times 1.0) + (1 \times 2.7) + (1 \times 4.0)}{2 + 3 + 3 + 3 + 1 + 1} = \frac{32.7}{13} = 2.5153$$

Grade Point Average = 2.52

Grade point values and credit values of all registered course units excluding the general studies course units, in a study programme of a student shall be taken into account in calculating the final GPA.

N.B.   All credits accumulated by a student shall be taken into account when computing the final GPA in respect of all the degree programmes offered by the Faculty.

Students should complete all modules registered and if they fail to complete a particular module, it will be indicated in the transcript as "Incomplete" and a zero (0.0) grade point value will be assigned to it.

8.3   MINIMUM REQUIREMENTS FOR OBTAINING A DEGREE

(a) 3-Year B.Sc. (General) Degree:

A student who has completed the first three academic years at Level 1, Level 2, and Level 3 as a full-time student can apply for the B.Sc. (General) Degree upon fulfilling the following credit requirements and the other partial requirements as prescribed in this Prospectus.

Obtain grades of "D+" or better in modules aggregating to a minimum of 90 credits with at least 30 credits at each level.

Furthermore, a student should

(i)   **obtain grades of "C" or better for compulsory and/or optional modules worth of 24 credits from each subject area, aggregating to 72 credits from any subject area,**

(ii)   **have a minimum overall GPA of 2.00,**

(iii) **obtain minimum ordinary passes at both English Language Proficiency Test I and II, and**

(iv)   **complete other relevant requirements within a period of five (05) academic years.**

(b) 4-Year B.Sc. (Joint Major) Degree in *Major 1* and *Major 2*:

A student who has completed all four academic years at Level 1, Level 2, Level 3, and Level 4, as a full-time student can apply for the B.Sc. (Joint Major) Degree upon fulfilling the following credit requirements and the other partial requirements as prescribed in this Prospectus.

Obtain grades of "D+" or better in modules aggregating to a minimum of 120 credits with at least 30 credits at each level.

Furthermore, a student should

(i) obtain grades of "C" or better for compulsory and/or optional modules worth of 45 credits from each major subject area (i.e. "C" or better grades for 90 credits from both Major 1 and Major 2), aggregating to 102 credits from any subject area,

(ii) have a minimum overall GPA 2.00,

(iii) obtain minimum ordinary passes at both English Language Proficiency Test I and II, and

(iv) complete other relevant requirements within a period of six (6) academic years.

(c) 4-Year B.Sc. (Special) Degree in [*Subject Area*]:

Obtain grades of "D+" or better in modules aggregating to a minimum of 120 credits with at least 30 credits at each level.

Furthermore, a student should

(i) obtain grades of "C" or better for at least 72 credits worth of compulsory modules from the subject of specialization aggregating to 110 credits from any subject area,

(ii) have a minimum overall GPA of 2.00,

(iii) obtain minimum ordinary passes at both English Language Proficiency Test I and II, and

(iv) complete other relevant requirements within a period of six (6) academic years.

8.4 REVERTING TO THE B.SC. (GENERAL) DEGREE

The students reading for the 4-year B.Sc. (Joint Major) Degrees or the 4-Year B.Sc. (Special) Degrees at Level 4 may request the award of the B.Sc. (General) Degree foregoing the B.Sc. (Joint Major/Special) Degrees upon satisfying the requirements for the B.Sc. (General) Degree. This request should be made within two (02) weeks after the release of results of Semester II modules at Level 3 of the degree programme. In these cases, the results of the B.Sc. (General) Degree shall be determined solely on the basis of modules offered at the first three Levels of the degree programme.

The Section of the clause 8.3 (a) (i) under minimum requirement for obtaining a degree and the clause 8.5 (a) (i)s under award of Honours will be amended as follows.

- When reverting from B.Sc. (Joint Major) Degree:

  " (i) Obtain grades of "C" or better for compulsory and/or optional modules worth of 24 credits from each of the two major subject areas, aggregating to …………………………"

- When reverting from B.Sc.(Special) Degree:

  " (i) Obtain grades of "C" or better for compulsory and/or optional modules worth of 24 credits from the specializing subject area, aggregating to …………………………"

N.B.

1. A particular subject area shall be prescribed as a main subject for the B.Sc. (General) Degree in the academic transcript only if the student has offered a minimum 24 credits from that area.

   Therefore, the students following the 4-year degrees from Level 3 onwards are strongly advised to offer a minimum of 4 more credits from the subject area to be dropped at Level 3.

2. The students who opt for the 3-year B.Sc. (General) Degree while being registered for Level 4, will be required to pay back all Mahapola or Bursary payments received from the University during Level 4 of the degree programme.

8.5 AWARD OF HONOURS

The students should apply for the award of the degree on satisfying the necessary requirements. On completion of the B.Sc. (General/Joint Major/ Special) Degree a student is entitled to a transcript giving the grades obtained the respective modules.

The students who have fulfilled the minimum requirements for obtaining a degree may be awarded honours (classes) if they further satisfy the following requirements.

(a) B.Sc. (General) Degree:

First Class Honours

A student who is eligible for the B.Sc. (General) Degree under 8.3(a) may be awarded First Class Honours provided if he/she

(i) obtains grades of "C" or better in compulsory and/or optional modules worth of 24 credits from each subject area aggregating to at least 90 credits, and grades of at least "C" in the remaining course modules registered (i.e. for all the modules registered except Auxiliary Courses),

(ii) obtain grades of A or better in modules aggregating to at least half the minimum overall credit requirement (i.e. A grades for at least 45 credits from any subject area,

(iii) obtains a minimum GPA of 3.70, and

(iv) completes the relevant requirements within three academic years.

Second Class (Upper Division) Honours

A student who is eligible for the B.Sc. (General) Degree under 8.3(a) may be awarded Second Class (Upper Division) Honours provided if he/she

(i) obtains grades of "C" or better in compulsory and/or optional modules worth of 24 credits from each subject area aggregating to at least 84 credits and grades of at least "C-" in the remaining course modules registered except Auxiliary Courses,

(ii) obtains grades of B or better in modules aggregating to at least half the minimum overall credit requirement (i.e. B grades for at least 45 credits from any subject area,

(iii) obtains a minimum GPA of 3.30, and

(iv) completes the relevant requirements within three academic years.

Second Class (Lower Division) Honours

A student who is eligible for the B.Sc. (General) Degree under 8.3(a) may be awarded Second Class (Lower Division) Honours provided if he/she

(i) obtains grades of "C" or better in compulsory and/or optional modules worth of 24 credits from each subject area aggregating to at least 80 credits and grades of at least "C-" in the remaining course modules registered except Auxiliary Courses,

(ii) obtains grades of B or better in modules aggregating to at least half the minimum overall credit requirement (i.e. B grades for at least 45 credits from any subject area,

(iii) obtains a minimum GPA of 3.00, and

(iv) completes the relevant requirements within three academic years.

(b) B.Sc. (Joint Major) Degree in *Major 1 & Major 2*:

First Class Honours

A student who is eligible for the B.Sc. (Joint Major) Degree under 8.3(b) may be awarded First Class Honours provided if he/she

(i) obtains grades of "C" or better in compulsory/optional modules worth of 45 credits from each major subject area (i.e. Major 1 and Major 2) aggregating to at least 120 credits, and grades of at least "C" in the remaining course modules registered (i.e. for all the modules registered except Auxiliary Courses),

(ii) obtains grades of A or better in modules aggregating to at least half the minimum overall credit requirement (i.e. A grades for at least 60 credits from any subject area)

(iii) obtains a minimum GPA of 3.70, and

(iv) completes the relevant requirements within four academic years.

Second Class (Upper Division) Honours

A student who is eligible for the B.Sc. (Joint Major) Degree under 8.3(b) may be awarded Second Class (Upper Division) Honours provided if he/she

(i) obtains grades of "C" or better in compulsory/optional modules worth of 45 credits from each major subject area (i.e. Major 1 and Major 2) aggregating to at least 112 credits and grades of at least "C-" in the remaining modules registered except Auxiliary Courses,

(ii) obtains grades of B or better in modules aggregating to at least half the minimum overall credit requirement (i.e. B grades for at least 60 credits from any subject area)

(iii) obtains a minimum GPA of 3.30, and

(iv) completes the relevant requirements within four academic years.

Second Class (Lower Division) Honours

A student who is eligible for the B.Sc. (Joint Major) Degree under 8.3(b) may be awarded Second Class (Lower Division) Honours provided if he/she

(i) obtains grades of "C" or better in compulsory/optional modules worth of 45 credits from each major subject area (i.e. Major 1 and Major 2) aggregating to at least 104 credits and grades of at least "C-" in the remaining modules registered except Auxiliary Courses,

(ii) obtains grades of B or better in modules aggregating to at least half the minimum overall credit requirement (i.e. B grades for at least 60 credits from any subject area)

(iii) obtains a minimum GPA of 3.00, and

(iv) completes the relevant requirements within four academic years.

(b) B.Sc. (Special) Degree in *Subject Area:*

First Class Honours

A student who is eligible for the B.Sc. (Special) Degree under 8.3(c) may be awarded First Class Honours if he/she

(i) obtains grades of "C" or better for all the modules offered except Auxiliary Courses,

(ii) obtains grades of A or better in modules aggregating to at least half the minimum overall credit requirement (i.e. A or better grades for at least 60 credits),

(iii) obtains grades of A or better in modules aggregating to at least half the number of credits accumulated at Level 3 and Level 4 from the subject of specialization,

(iv) obtains a minimum GPA of 3.70, and

(v) completes the relevant requirements within four academic years.

Second Class (Upper Division) Honours

A student who is eligible for the B.Sc. (Special) Degree under 8.3(c) may be awarded Second Class (Upper Division) if he/she

(i) obtains grades of "C" or better aggregating to at least 112 credits including all the modules registered from the subject area of specialization and grades of at least "C-" in the remaining modules offered except Auxiliary Courses,

(ii) obtains grades of B or better in modules aggregating to at least half the minimum overall credit requirement (i.e. B or better grades for at least 60 credits),

(iii) obtains grades of B or better in modules aggregating to at least half the number of credits accumulated at Level 3 and Level 4 from the subject of specialization,

(iv) obtains a minimum GPA of 3.30, and

(v) completes the relevant requirements within four academic years.

Second Class (Lower Division) Honours

A student who is eligible for the B.Sc. (Special) Degree under 8.3(c) may be awarded Second Class (Lower Division) if he/she

(i) obtains grades of "C" or better aggregating to at least 104 credits and grades of at least "C-" in the remaining modules offered except Auxiliary Courses,

(ii) obtains grades of B or better in modules aggregating to at least half the minimum overall credit requirement (i.e. B or better grades for at least 60 credits),

(iii)   **obtains grades of B or better in modules aggregating to at least half the number of credits accumulated at Level 3 and Level 4 from the subject of specialization,**

(iv)   **obtains a minimum GPA of 3.00, and**

(v)   **completes the relevant requirements within four academic years.**

8.6   DEAN'S LIST

Introduction

Undergraduates who achieve an outstanding overall result in the course of an academic year can have their names included in the Deans' List. This is an award for academic excellence, promoted by the Deans of a University, and an honour which will also appear on a student's University transcript.

The Faculty of Applied Sciences encourages excellence in scholarship and gives official recognition to undergraduate students whose academic achievements are outstanding in any given academic year. Any student who meets all the following conditions and obtains a credit-weighted annual grade point average of 3.70 or above for the academic year will be recorded on the Deans' List. The award will be made annually and the Dean's List citation will appear on the transcript.

Criteria

To qualify and be placed on the Dean's List, students must meet the following minimum requirements:

- Be enrolled as a full time undergraduate for an approved Degree program at the Faculty of Applied Sciences.

- Be enrolled for course modules amounting to at least 30 credits (*the minimum prescribed for an academic year*) during the academic year.

- Earn a minimum of 30 letter-grade credits with
  No grade lower than "C"   No failure grades or Incompletes in the qualifying academic year.

- Reach a minimum annual GPA of 3.70 in the qualifying academic year.

- Be not on academic warning or probation or subject to any disciplinary action.

The following shall also be applicable in respect of the selection criteria.

➢ Calculation of Annual GPA:
  All the course modules, excluding the non-credit modules, a student is registered for in an academic year shall be taken into account in calculating the annual GPA.

➢ Failure grades:
  Non-eligibility for a module shall be considered as a failure grade.

➢ Incompletes:

Students with incomplete grades due to medical reasons or other reasons acceptable to the Faculty board will be evaluated after the incomplete grades are upgraded.

➢ Disciplinary action:

A student who is found to have violated the Code of Student Conduct, Laws, by-laws or regulations of the University or who has received a suspension or greater punishment for a violation of the Code of Conduct will not be eligible for Dean's List in any academic year.

If the finding occurs after selections have been made, the student's name will be removed from all the Dean's Lists, the Dean's List citation will be removed from the transcript and any letters /certificates issued will be withdrawn.

➢ Leave of absence:

Students who have to take a period of leave of absence for medical or personal reasons will retain their eligibility provided they satisfy the above criteria within the completion time stipulated by the Faculty for the academic year that has been interrupted.

➢ Graduate students:

Graduate students are not eligible for Dean's List.

Selection Process & the Award

- Calculation of grades and selection of students for the Dean's list will take place over the following academic year, once the second semester results are released.
- On the recommendation of the Dean/ Faculty of Applied Sciences and on the approval by the Faculty Board, any student who is eligible under above criteria will be placed on the Deans' List.
- On graduation, students who were in the Dean's List will be issued with a certificate from the Dean.
- Notation of Dean's List standing will be made on the grade report and on the official transcript.
- Further recognition may be granted at graduation/convocation for students who were in the Dean's List for more than one academic year.