

STUDENT HANDBOOK
FOR
ALLIED HEALTH SCIENCES
DEGREE PROGRAMMES

Faculty of Allied Health Sciences
University of Sri Jayewardenepura
Gangodawila, Nugegoda

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VISION, MISSION AND THE GRADUATE PROFILE

Vision

Prosper lives through education

Mission

To provide globally accredited health professions education in producing competent, socially sensitive, responsible and humane professionals and to improve health care services through research, innovations and outreach.

Graduate Profile

The Faculty of Allied Health Sciences, University of Sri Jayewardenepura aims to produce a graduate who will be,

- **Competent** to perform as a health sciences professional.
- **Compassionate** and caring in delivering the services.
- **Conscientious** in discharging the duties and responsibilities.
- **Creative** in conducting research to promote health and wellness.
- **Connected** to be responsive to the changing needs of the society.



INTRODUCTION

The handbook serves as an orientation and a reference guide for students commencing Health Sciences degree programmes in the Faculty of Allied Health Sciences. It provides specific information on the curricula of the conducted degree programmes. The Student Handbook also contains useful information on resources and facilities in the University, guidelines for student conduct, support units and extra-curricular activities available within the University.

The currently conducted degree programmes are;

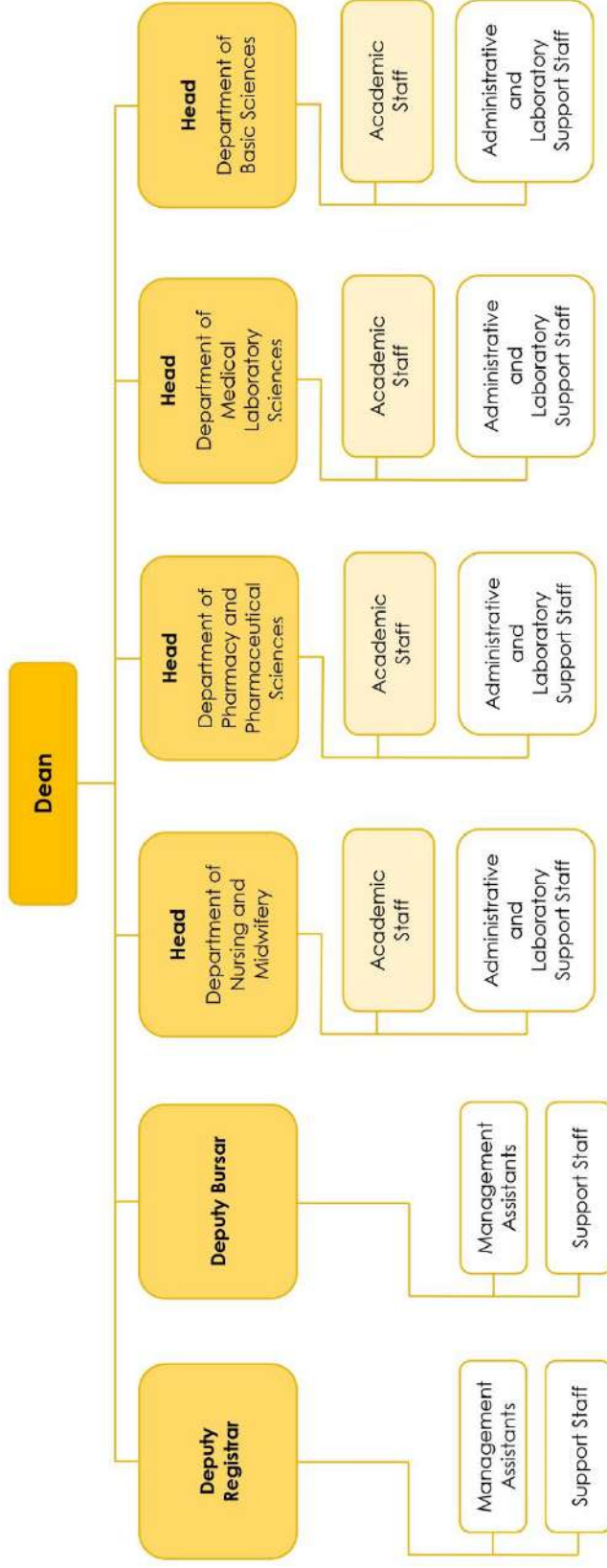
1. B.Sc. (Honours) in Nursing
2. Bachelor of Pharmacy (Honours)
3. B.Sc. (Honours) in Medical Laboratory Sciences

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ORGANIZATIONAL STRUCTURE

FACULTY OF ALLIED HEALTH SCIENCES



STAFF PROFILE

Department of Nursing and Midwifery

Name	Designation	Qualifications
1. Ms. S.M.K.S. Seneviratne	Head of Department, Senior Lecturer Grade I	B.Sc. N (Hons), MN, M.Phil. RN.
2. Dr. A.A.T.D. Amarasekara	Senior Lecturer Grade II	B.Sc., B.Sc. N (Hons), Dip. in Teaching & Supervision, PG. Dip. in Edu, M.Ed., PhD. RN.
3. Dr. M.K.D.L. Meegoda	Senior Lecturer Grade II	B.Sc. N (Hons), M.Sc. N, Dip. in Teaching & Supervision, PhD. RN, RM.
4. Dr. M.R.S. Jayathilaka	Senior Lecturer Grade II	B.Sc. N(Hons), PhD, RN, RM.
5. Mrs. R.M.T.B. Abeyratne	Lecturer (Probationary)	B.Sc. N (Special), RN
6. Mrs. L.C. Damayanthi	Lecturer (Probationary)	B.Sc. N (Hons), Dip. in Teaching & Supervision, RN, RM
7. Dr. I.M.P.S. Ilankoon	Lecturer	B.Sc. N (Special), MSc., RN, PhD
8. Mrs. D.M.A.P. Dissanayaka	Lecturer (Probationary)	B.Sc. N (Special), RN
9. Mrs. T.L.C. Lasanthika	Lecturer (Probationary)	B.Sc. N (Special), RN
10. Mrs. T.H.K.P. Dharmasena	Lecturer (Probationary)	B.Sc. N (Special), RN
11. Mrs. Viloshini Daluwakgoda	Lecturer (Probationary)	B.Sc. N (Hons), MPH, RN

Department of Pharmacy and Pharmaceutical Sciences

Name	Designation	Qualifications
1. Dr. M.D.J. Wijayabandara	Head of Department, Senior Lecturer Grade I	B.Sc. (Chem), PhD
2. Dr. W.J.A.B.N. Jayasuriya	Senior Lecturer Grade I	B.Sc. (Pharmacy), PhD
3. Dr. Dilanthi Herath	Senior Lecturer Grade II	B.Sc. (Pharmacy), PhD
4. Dr. N.R. Samaranayake	Senior Lecturer Grade II	B.Sc. (Pharmacy), PhD
5. Mr. M.A. Siriwardhene	Senior Lecturer Grade II	B. Pharm, M.Phil
6. Dr. G.P.S. G.Senadheera	Senior Lecturer Grade II	B.Sc. (Pharmacy), Pg. Dip in BM, PhD
7. Mrs. L.G.T. Shanika	Senior Lecturer Grade II	B.Pharm, M.Phil
8. Dr. Ranga Dissanayake	Senior Lecturer Grade II	B.Sc. (Pharmacy), PhD
9. Mrs. Abarna Nadeshkumar	Lecturer (Probationary)	B.Sc. (Pharmacy), Pg. Dip in BM, Grad. Chem,
10. Mrs. Dinithi Kaluthanthiri	Lecturer (Probationary)	B.Pharm, Grad. Chem,

Department of Medical Laboratory Sciences

Name	Designation	Qualifications
1. Dr. (Mrs) Inoka Uluwaduge	Head of Department, Senior Lecturer	B.Sc. (Special, Human Biology), PhD
2. Dr. (Mrs) A.M.B. Priyadarshani	Senior Lecturer	B.Sc. (Special, Human Biology), PhD
3. Dr. G.U.S. Wijesekara	Senior Lecturer	B.Sc. (Biological Sciences), M.Sc., PhD
4. Dr. (Mrs) N.D. Withanage	Senior Lecturer	B.Sc. (Special, Human Biology), PhD
5. Mr. L.G.T. Darshana	Lecturer (Probationary)	B.Sc. (Special, MLS)
6. Mr. B.A.G. Chathuranga	Lecturer (Probationary)	B.Sc. (Special MLS)
7. Mr. E.M.S. Bandara	Lecturer (Probationary)	B.Sc. (Special MLS), M.Phil

CODE OF CONDUCT, DISCIPLINE AND BEHAVIOUR OF STUDENTS

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1. Dress Code

The recommended dress code is in keeping with the rich culture and the traditions of the university. The dress code is also a part of professionalism which is developed in the students who will later serve as health care professionals. The Faculty of Allied Health Sciences thus expects students to follow a dress code very strictly.

Dress and appearance at all times should be appropriate and conform to the profession. It is strongly recommended that students should be clean and tidy in their appearance. Hair should be neatly combed and male students are expected to be well shaven.

Recommended dress code for boys

- Trousers and collared shirts
- Shoes and socks

Recommended dress code for girls

- Dress / Skirt and Blouse (blouses must extend to the waistband and skirts must extend below knee level)
- Formal foot wear

The following are strictly prohibited

- T-Shirts, shorts and trousers with extra pockets
- Caps, sports shoes
- Extra body adornment
- Hair Styling (e.g. "spiked hair", multi coloured), make-up, piercings, etc.
- Revealing clothes such as miniskirts, sleeveless tops, etc.
- Wearing concealing clothes that prevent clear identification of the student (the face should be clearly visible at all times).

The academic staff has been given authority to pull up students who do not adhere to the above dress code and students may be asked to leave the particular academic session (Lecture, Practical, Tutorial, Ward Session). If a student repeatedly violates the dress code, strict disciplinary action will be taken.

2. Punctuality and Attendance

Students are expected to attend all scheduled lectures, tutorials, practical classes and clinical attachments. A minimum of Eighty percent (80%) attendance is mandatory for tutorials, small group discussions, practicals and clinical attachments. Students who do not fulfill this requirement will not be allowed to sit the relevant examinations.

Absence without a valid reason is not permitted for academic and clinical attachments (as given in the by-laws). A valid medical certificate has to be produced through the University medical officer within 14 days, if such absence is due to an illness.

3. Ragging & Conflict Resolution

Ragging

Any form of ragging is not allowed within or outside the university premises. Disciplinary action will be taken against those students according to the University act if found guilty.

Conflict Resolution

Students are always encouraged to solve problems through dialogue and negotiation. Resorting to strikes/boycotting of classes, demonstrations and other protests to resolve problems, is not recommended.

4. Safeguarding the Properties and the Environment

It is the duty and the responsibility of the students to protect the properties of the University and the Faculty. Students should ensure that the lecture halls, tutorial rooms, laboratories, libraries and the premises of the University and Faculty are kept clean and tidy at all times.

Students should utilize the University and Faculty resources in such a way so that these resources are not depleted or permanently damaged, compromising the opportunities of future generations of students to use them. Students should be mindful of the use of electricity, water and the other resources during academic and extracurricular activities. Problems such as electrical faults, leaking water pipes, broken toilets should be reported through the student welfare committee representatives to the relevant authorities.

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1. Contact Information

	Direct (Office)	Home/ Mobile	Extension
Dean			
Prof. D.M.S. Fernando		0714968219	4527
Deputy Registrar			
Ms. Visakha Korale	011 2802084	011 2898784 077 1359135	1245
Deputy Bursar			
Mr. H.A. Dharmasena	011 2802084	011 2770279 071 1957269	1245

HEAD OF DEPARTMENTS

Department of Pharmacy & Pharmaceutical Sciences

Head - Dr. M.D.J. Wijayabandara	011 3182368	071 8402163	8598
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Department of Nursing & Midwifery

Head - Ms. S.M.K.S. Senevirathne	011 3182366	077 3439193	1616
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Department of Medical Laboratory Sciences

Head - Dr. Inoka Uluwaduge	011 3182367	077 3632035	1601
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Deputy Proctors

Dr. Thamara Amarasekara		077 2791404	
Dr. Udaya Wijesekara		071 8031173	

Resource Centre (Faculty of Medical Sciences)

IT Laboratory	011 2758722	8722
Language & Communication Laboratory	011 2758723	8723
Skills Laboratory	011 2758724	8724

Library (Medical)	011 2758530	8530
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2. Identity Cards and Student Record Books

All students are issued an identity card and a record book. The identity card contains a photograph with a registration number. This will be the only valid document for identification of the student, and should be in possession with the student while in the Faculty, hospital or during field visits. The identity card must be produced to enter the University premises and to borrow books from the library. The identity card must be renewed at regular intervals.

In case of loss of a student identity card, it should be reported to the Deputy Registrar/FAHS accompanied with a copy of the police complaint.

3. Library (Faculty of Medical Sciences)

The Library is housed in the new building of the Faculty of Medical Sciences. The library comprises two sections: the reference and the lending sections. The reference section has the capacity to accommodate approximately 150 students at a time.

A varied selection of information resources are available in the library, including monographs, periodicals, e-sources, (CD-ROM and online sources) and audio visual material.

The library is used by many, including

- Undergraduates (MBBS, Human Biology, and allied health sciences)
- Postgraduates
- Academics
- Academic support staff
- Non- academics
- Researchers

The library is open on weekdays from 8.00 am to 6.00 pm and on weekends and holidays (except Poya days) from 8.00 am to 5.00 pm. During examination periods, it is kept open from 8.00 am - 8.00 pm daily.

The library has an array of reading materials (including monographs, periodicals, e-sources, (CD-ROM and online sources) audio visual material and books. Students are expected to use them carefully according to the rules and regulations of the library which will be explained during the orientation programme.

4. Examination Unit (Faculty of Medical Sciences)

All examinations held by the Faculty are currently coordinated by the Examinations Unit which is under the Director, Examinations Unit who reports directly to the Dean of Faculty of Medical Sciences.

The Examination Unit is the custodian of rules and regulations concerning the conduct of examinations in the Faculty.

5. Resource Centre (Faculty of Medical Sciences)

The Resource Centre consists of 3 laboratories:

- Language and Communication Laboratory
- Information Technology Laboratory
- Skills Laboratory

Language and Communication Laboratory

The main aim of this laboratory is to facilitate the development of English language proficiency so that undergraduates will follow the study programme without language being a barrier. It also provides opportunities for students to improve English, Sinhala and Tamil conversational skills to communicate with patients and members of the health care team.

The language and communication development activities are conducted during the orientation programme and also during the course. The activities in the orientation programme are aimed at improving general English language proficiency in speaking, listening, reading and writing.

Curricular time is also assigned to language activities and are compulsory. Students who need more assistance are encouraged to use the laboratory more frequently. The laboratory will be kept open after hours at the request of students.

Information Technology Laboratory

Information Technology Laboratory has 45 computers and internet access. It conducts sessions through which students get experience especially in Microsoft Office, Email, Internet and use of computer related accessories.

Skills Laboratory

Skills training sessions are conducted in the skills laboratory, providing students with adequate time to acquire relevant clinical skills in a non-threatening environment. These sessions are conducted in small groups under the guidance of academic staff, giving individual attention and the opportunity to practice until he/she is confident in performing the task without supervision.

The laboratory consists of state-of-the-art equipment such as models, simulators and mannequins, enabling students to acquire hands on practice in performing procedures.

6. Student Welfare Facilities

Student Welfare Committee

The Students' Welfare Committee (SWC) comprises of ten academics and three student representatives from each of Allied Health Sciences degree programmes. The committee meets monthly and discusses issues related to student welfare. The committee also identifies students with financial difficulties and the most deserving students are assisted either by finding sponsors or through the Student Financial Assistance Scheme.

Scholarships and Bursaries

The course is free of charge for locally qualified students selected by the University Grants Commission. Different financial assistance schemes are available for students of low-income families. The students are selected for scholarships and bursaries based on their local administrator's (Grama Niladhari's) recommendations and certification of income level. A student who receives 'Mahapola' is not eligible for a bursary.

Mahapola

The 'Mahapola' scholarship is awarded by the Mahapola Trust Fund. Students are selected primarily based on merit while a small proportion is selected on the parental income.

Bursary

This scheme is for students with low income. The recipient students are selected based on criteria adopted by the university.

Accommodation Facilities

The first year and final year students are eligible for University hostel facilities. Students may contact the student welfare center for further details.

7. Physical Environment

Lecture Halls and Tutorial Rooms

There are four lecture halls in the Health Sciences Resource Centre building and two lecture halls in the library building. B.Sc. (Hons) in Nursing programme conducts selected lectures at the Colombo South Teaching Hospital. Tutorial rooms are assigned for small group activities.

Laboratories

Eight student laboratories are available which are utilized by students of all degree programmes. These laboratories are used for teaching and research purposes. The department of Nursing and Midwifery has a skills development laboratory exclusively used by nursing undergraduates.

Student Rest Rooms/ Reading Rooms

A student rest room is available in the library building providing ample space for students to unwind between lectures. A reading room for students is located on the 4th floor of the Resource Centre. A large, common reading hall open to all University students is located adjacent to the library building.

Canteen

The University has nine common canteens scattered through its premises. In addition canteens in the Anatomy building and the new building of the faculty of Medical Sciences is accessible to students.

Recreation Facilities

The University has a well-equipped gymnasium, swimming pool and two large grounds. Physical Education Division of the University has facilities and provides opportunities for students to train and take part in different sports. Yoga classes are held two days of the week under a trained instructor free of charge.

Center for IT (CITS)

The Center for IT Services is the centre, which manages the Campus - wide IT infrastructure, Internet and email facilities, Server administration and maintains e-Services and applications while providing technical support and solutions for university students and staff. Apart from these, CITS develops and maintains the university website and is also fortified with a fully equipped media team.

8. Health and Counselling Facilities

Medical Centre

The University medical centre provides and coordinates health related needs of university students. It is open from 8:00am -12.00 noon and from 2:00-4:00 pm during week days except public holidays. It also provides indoor and outdoor treatment including dental care. In addition, students who need further treatment are referred to other institutions. Tetanus toxoid and Hepatitis B vaccinations are available for students at the medical centre.

The medical forms for all new entrants are issued from the medical centre. Completion of this form is mandatory for all students.

When a student is absent (for a medical reason) from an examination or from tutorials/practicals/clinical sessions a medical certificate issued from the medical centre or a medical certificate issued by a qualified medical practitioner has to be provided within 14 days of the illness. In the latter case, the medical certificate has to be approved by the University Medical Officer before it is submitted to the Deputy Registrar of the Faculty or the relevant Head of department.

Student Counsellors

The Faculty appoints student counsellors annually to provide counselling and guidance to students. Students are encouraged to meet the student counsellors regularly to discuss their problems and to seek guidance.

Personal Tutor Scheme

A personal tutor scheme operates at the Faculty, where a student is assigned to two academic staff members. Students are provided dedicated curricular time within the orientation programme to meet their respective personal tutors. Thereafter, students are encouraged to meet their tutors regularly to discuss academic and personal problems.

Student Assistance in Emergencies

Students are recommended to contact the deputy proctors for any emergency on a personal or a common problem. The following are the current deputy proctors of the Faculty of Allied Health Sciences.

Dr. Thamara Amarasekara - 077 2791404

Dr. Udaya Wijesekara - 071 8031173

Counselling Service "Sisu Maga Dekma"

An academic member from the Department of Psychiatry provides counselling services at the Department of Psychiatry Faculty of Medical Sciences. This facility is available not only for medical and allied health science students but also for other students of the University.

Academic Guidance for Students

Details about the curriculum including assessments are given in the student handbook. In addition during the orientation programme a detailed overview of the curriculum and assessments of each study programme will be explained. The faculty website www.health.sjp.ac.lk will also provide relevant information on academic matters. Students are requested to read these before the commencement of the course and at different stages during the course.

Attendance at small group discussions, tutorials and practical classes and clinical attachments is regularly monitored and students with inadequate attendance are requested to meet the relevant heads of departments to discuss the reasons for such absenteeism and to take remedial action when necessary*. Performance at in-course assessments are also monitored and special attention will be given to those who obtain low marks before the end of year examination. Remedial

teaching by way of lectures, small group discussions and practicals/ward classes can be arranged after discussion with the respective heads of departments. The students who fail the examinations are assisted with revision tutorials and revision lectures. Students are recommended to meet the academic staff, Personal Tutors/ Heads of departments to get feedback and academic guidance on a regular basis.

* Students are strongly advised to take corrective measures to complete all teaching / training requirements before the relevant examinations.

EXTRA CURRICULAR ACTIVITIES

A variety of extra-curricular activities are available within the University providing students with ample respite from academic work. The undergraduates take part in a wide range of sports and aesthetic activities. In the past undergraduates have represented the University and excelled at both national and international events.

As the current students of Allied Health Degree Programmes were admitted to the Faculty of Medical Sciences, they have been participating in extracurricular activities jointly conducted by medical and health sciences students. These include activities conducted by Arts Circle, Religious Societies, Sports Club and Nature & Photography Club. However arrangements are now made to start these societies/clubs in the newly established Faculty of Allied Health Sciences.





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1. Introduction

Teaching/Learning Strategies

Diverse teaching learning strategies are used to promote & facilitate learning,

- Lectures
- Tutorials
- Small group discussions
- Integrated seminars (student centered)
- Clinical teaching / bed side teaching
- Clinical lecture demonstrations
- Field visits /community projects
- Research projects
- Role play
- Video demonstrations

Lectures

Most lectures are delivered through power point presentations and it is optional for the lecturers to make them available to students. The academic staff makes every effort to update the lectures regularly. Peer evaluation on lectures is obtained frequently and improvements made. Based on student feedback and peer evaluation the lectures are revised. Students are recommended to access the updated lecture notes given/uploaded by the academic staff.

Structure and Duration of Courses

The courses are conducted in English over a 4 year period. Each academic year comprises 3 terms, each term spanning a period of 10 weeks.

Credit Values of Course Units

Each course unit has a defined credit value ranging from 1.0 to 4.0 which is always a multiple of 0.5. Credit value is an indicator of the size and value of the subject. 1.0 credit is equivalent to approximately 15 lecture hours or 30 practical hours.

Orientation Programme

The orientation programme is conducted during the first two to four weeks of the course. The aim of the programme is to guide students to become self-directed learners, to improve their language, communication and information technology (IT) skills and to introduce students to the relevant disciplines of health sciences.

A well-structured language and IT learning programmes are conducted at the Resource Center. Language activities are aimed at improving English language and communication skills. IT learning sessions aim to provide basic knowledge and skills in IT. In addition special sessions on coping strategies, time management and study skills and teamwork are included to empower the students to cope with the challenges of University life.

Special lectures are conducted to educate students on the rules and regulations of the University, mission and objectives of the Faculty, curriculum, library facilities and access, student welfare facilities, sports and recreational activities and student societies etc.

Academic activities commence immediately following completion of the orientation programme.

The degree programme is conducted according to subject specific objectives identified by each department. All schedules/ time tables and teaching learning sessions are displayed on notice boards.

2. Organization of Academic Content



B.SC (HONOURS) IN NURSING

1. Introduction

The Bachelor of Science (Honours) in Nursing Programme is a level 6, Pre-Registration Degree course designed to equip nurse practitioners, who are beginners, with competencies in providing safe and effective nursing care of high standard in a variety of settings. The graduates of this programme will have the potential to practice as Generalist Nurses, Midwives and Community Health Nurses.

The curriculum provides a sound scientific and humanistic foundation for nursing practice enabling the students to develop competencies necessary for the delivery of nursing care related to prevention, maintenance, cure, rehabilitation and promotion of health. It also addresses the acute and chronic health problems throughout their life span, including care of the child bearing women from conception to child birth.

Apart from being sensitive and caring towards their clients, graduates of this programme will be confident of their contributions to the care and will be able to articulate the nurses' role to other disciplines in health care ensuring patient safety.

The programme also introduces nursing research and evidence - based nursing practice at an early stage. Emphasis is placed on developing critical and reflective thinking, decision making, problem solving and social skills of the undergraduates, and skills to address professional, moral and ethical issues. The programme is designed to encourage students to acquire knowledge and insights through self- directed learning and motivate innovative approaches.


The course objectives are aligned with the Sri Lanka Qualification Framework (SLQF) and curriculum is designed to meet the required standards stipulated.

This course meets the academic and clinical education requirements stipulated by the Sri Lanka Nursing Council for registration. Further, the course was accredited by the Ceylon Medical College Council (CMCC) in 2009 and Sri Lanka Nursing Council (SLNC) in 2013.

2. Overview of the Curriculum

The course is offered over twelve terms (04 academic years) for the Bachelor of Science Honours in Nursing Programme, full time and a minimum of 03 years for the lateral entrants.

Each academic year comprise 03 regular terms. and, each term is 10 weeks in duration. Bachelor of Science Honours in Nursing degree offers a course with 130 credits. The number of study hours of each subject is arranged according to number of credits assigned as follows.



Each course unit has a defined credit value ranging from 2.0 to 8.0. One credit unit consists of approximately 15 hours of lecture or 30 hours of laboratory work or 50 hours of field practical / clinical work. If a course is composed of lecture, laboratory work, and clinical experience, the number of study hours of each part is arranged in proportion to the number of credits assigned. The course will include nursing practice in a variety of clinical settings and in the community.

3. Graduate Profile

It is expected that a nursing graduate will be able to;

1. Apply knowledge skills and attitudes in providing nursing care in a culturally sensitive manner.
2. Practice with compassion and a caring manner taking informed decisions based on ethical principles and self-reflections.
3. Work effectively with other health care professionals as a team member and a team leader in delivering health care with responsibility and accountability.
4. Conduct research and disseminate the findings to improve health care and health professions education nationally and globally.
5. Be a lifelong learner and advance in the career contributing to the changing needs of the profession and society.

4. Programme Outcomes

A graduate of the Bachelor of Science in Nursing programme at the Sri Jayewardenepura University will be able to;

- Integrate a body of scientific knowledge from the humanities & biological sciences effectively when giving care.
- Participate actively and effectively as a member of the Health Care Team in preventive, promotive, curative and rehabilitative areas of health care delivery.
- Assess the needs of individuals, families and community, plan and implement nursing care and evaluate the effectiveness of nursing interventions.

- Demonstrate effective and therapeutic communication skills in nursing relationships.
- Demonstrate competence in application of safe, effective, and efficient use of technology and resources.
- Appreciate and enhance continual personal and professional development of self and colleagues
- Participate actively in educating clients regarding their care in clinical situations and in the community.
- Demonstrate abilities in ethical decision making and professional practice
- Contribute to nursing knowledge through planning and conducting nursing research activities and sharing the findings with their colleagues.
- Apply best available evidence in enhancing quality of nursing care

ACADEMIC PROGRAMME

Subject/Course Unit Code	Subject/ Course Unit	Total Credits	
Year 1	NS101	Anatomy	4
	NS102	Physiology	4
	NS103	Biochemistry	2
	NS104	Fundamentals of Nursing	7
	NS105	Fundamentals of Nursing Practice	8
	NS106	Nursing History, Ethics and Professional Development I	3
	NS107	Psychosocial Aspects of Health	4
	NS108	Pharmacology in Nursing	2
	NS109	English Language & Information Technology	-
Total		34	
Year 2	NS201	Surgical Nursing I	6.5
	NS202	Medical Nursing I	6.5
	NS203	Microbiology & Parasitology	4
	NS204	Pathology	3
	NS205	Pharmacology	2
	NS206	Community Health Nursing I	5
	NS207	Communication Skills in Nursing	2
	NS208	Health Teaching & Learning	2
Total		31	
Year 3	NS301	Maternal Health & Gynaecological Nursing I	6
	NS302	Child Health Nursing I	6
	NS303	Surgical Nursing II	6
	NS304	Medical Nursing II	6
	NS305	Basic Statistics and Nursing Research	3
	NS306	Psychiatric & Mental Health Nursing	4
	NS307	Nutrition & Dietetics	2
Total		33	

Year 4	NS401	Maternal Health & Gynaecological Nursing II	5
	NS402	Child Health Nursing II	5
	NS403	Trends and Issues in Nursing	3
	NS404	Nursing Ethics & Professional Development II	
	NS405	Management in Nursing	3
	NS406	Research Project	8
	NS407	Community Health Nursing II	2
	NS408	Clinical Elective	6
Total			32

3. Outline of Content Covered in Each Year

Year 1

Subject	Lecture/ Tutorial	Lecture Credits	Lab Hrs	Lab Credits	Practice Hrs	Practice Credits	Total Hrs	Total Credits
Fundamentals of Nursing	105	7	-	-	-	-	105	7
Fundamentals of Nursing Practice	-	-	90	3	250	5	340	8
Anatomy	45	3	30	01	-	-	75	4
Physiology	56	3.7	-	-	7	0.3	63	4
Biochemistry	24	1.6	12	0.4	-	-	36	2
Nursing History, Ethics and Professional Development I	45	3	-	-	-	-	45	3
Psychosocial Aspects of Health	60	4	-	-	-	-	60	4
Pharmacology in Nursing	15	1	15	0.5	25	0.5	55	2
English Language & Information Technology	-	-	70	-	-	-	70	-
Total								34

Year 2

Subject	Lecture/ Tutorial Hrs	Lecture Credits	Lab Hrs	Lab Credits	Practice Hrs	Practice Credits	Total Hrs	Total Credits
Surgical Nursing I	37.5	2.5	7.5	0.25	187.5	3.75	232.5	6.5
Medical Nursing I	37.5	2.5	7.5	0.25	187.5	3.75	232.5	6.5
Microbiology & Parasitology	50	3.3	21	0.7	-	-	70	4
Pathology	39	2.6	12	0.4	-	-	51	3
Pharmacology	30	2	-	-	-	-	30	2
Community Health Nursing I	30	02	-	-	150	03	180	5
Communication Skills in Nursing	22.5	1.5	15	0.5	-	-	37.5	2
Health Teaching & Learning	30	02	-	-	-	-	30	2
Total								31

Year 3

Subject	Lecture/ Tutorial	Lecture Credits	Lab Hrs	Lab Credits	Practice Hrs	Practice Credits	Total Hrs	Total Credits
Maternal Health & Gynaecological Nursing I	54	3.6	6	0.2	110	2.2	170	6
Child Health Nursing I	37.5	2.5	15	0.5	150	3	202.5	6
Surgical Nursing II	45	3	7.5	0.25	137.5	2.75	190	6
Medical Nursing II	45	3	7.5	0.25	137.5	2.75	190	6
Basic Statistics and Nursing Research	45	3	-	-	-	-	45	3
Psychiatric & Mental Health Nursing	30	02	-	-	100	2	130	4
Nutrition & Dietetics	30	2					30	2
Total								33

Year 4

Subject	Lecture/ Tutorial	Lecture Credits	Lab Hrs	Lab Credits	Practice Hrs	Practice Credits	Total Hrs	Total Credits
Maternal Health & Gynaecological Nursing II	30	2	-	-	150	3	180	5
Child Health Nursing II	22.5	1.5	-	-	175	3.5	197.5	5
Trends and Issues in Nursing	45	3	-	-	-	-	45	3
Nursing Ethics & Professional Development II			-		-			
Management in Nursing	30	2	-	-	50	1	80	3
Research Project								8
Community Health Nursing II	15	1	-	-	50	1	65	2
Clinical Elective#	-	-	-	-	300 (8 weeks)	6	300	6
Total								32

Nursing Elective: Midwifery / Psychiatric & Mental Health / Trauma Nursing / Elderly care / Palliative care

Nursing Clinical Practice

Year	Subject Area	No of Hours	Clinical Area
Year 1	Fundamentals of Nursing	250	1. General Medical & Surgical Wards
Year 2	Surgical Nursing I Medical Nursing I	375	1. Medical & Surgical Wards 2. Special Units*
Year 3	Surgical Nursing II	275	1. Medical & Surgical Wards
	Medical Nursing II		2. Special Units*
	Maternal Health & Gynaecological Nursing I	110	3. Gynaecology and Obstetrics Wards
	Child Health Nursing I	150	4. Paediatric Units
	Psychiatric & Mental Health Nursing	100	5. Psychiatry Units
Year 4	Maternal Health & Gynaecological Nursing II	110	1. Gynaecology and Obstetric Wards
	Child Health Nursing II	150	2. Paediatric Units
	Management in Nursing	50	3. Psychiatry Units
	Nursing Elective	300	4. Emergency and Trauma Units
			5. Aged Care Homes
			6. Palliative Care Unit
			7. Medical & Surgical Wards & Special Units*
Total Hrs		2060	

+ Additional hours during vacation

* Special Units - Duration of Training

Operating Theatre	- 04 weeks	Accident and Emergency	- 03 weeks
Cardiology Unit	- 02 weeks	<i>(Including Burns Unit)</i>	
Cardio Thoracic Unit	- 02 weeks	Intensive Care Units	- 02 weeks
Dialysis Unit	- 01 week	Orthopaedic Wards	- 03 weeks
Neuro - Surgical Unit	- 02 weeks	Central Sterile Supplies Department	- 01 weeks
E,N,T Unit	- 02 weeks	Out Patients' Department	- 03 weeks
Dermatology	- 01 week	Radiology Department	- 01 week
Ophthalmology	- 02 weeks	Oncology Unit	- 01 week
STD Unit	- 01 week	Neonatal ICU/ SCBU	- 01 week
Blood Bank	- 02 weeks		

Community Field Practice

Year	Subject Area	No of Hours	Field Area
Year 2	Community Health Nursing I	100	Poly clinics, Home visits, other field visits, School health inspection, Surveys
Year 4	Community Health Nursing II	50	Family attachment

4. Assessments of B.Sc. (Hons) in Nursing

Student assessments will consist of in-course and end-course assessments for their theoretical applications and practical experience. In-course assessments are continuous assessments.

Assessment (Theory and Practice)

Subjects those are completed within an academic year will be assessed during the course or at the end of the year.

Assessment (Nursing Practice)

Practical experience for each nursing clinical subject will be assessed by nurse teachers during the study period as well as at the final examination. The students will also be encouraged to self-evaluate their learning throughout the programme.

Assessment Criteria

The students have to complete the requirements for each component of the subjects/units to be eligible to sit for an examination.

Methods of Assessment

Student's performance at each subject/course unit is assessed and graded by one or more of theory examinations, practical/clinical examinations including (OSPE, OSCE), continuous assessments and viva voce examinations as applicable to nursing.

Theory components will be assessed mainly by written examinations consisting of Multiple Choice Questions and Structured Essay Questions. Practical/clinical skills will be assessed by practical examinations and Objective Structured Practical Examinations (OSPE), OSCE coupled with viva voce examinations.



EXAMINATION STRUCTURE

(1) First year

- 1.1** Continuous assessments of the Bachelor of Science Honours in Nursing - Part 1 Examination
- 1.2** A total of two continuous assessments (CA) will be held during the 1st year.
- (a) CA-1 to assess course content of the Term 1
 - (b) CA-2 to assess course content of the Term 2
- 1.3** Subjects/course units which are assessed at the end of term 1 and/or Term 2 are Anatomy, Physiology, Biochemistry, Fundamentals of Nursing I, Fundamentals of Nursing Practice I, Psychosocial aspects of Health, Pharmacology in Nursing and Nursing History, Ethics & Professional Development I.
- 1.4** Percentage of continuous assessment marks which carry from each subject/course unit for Bachelor of Science (Honours) in Nursing - Part 1 Examination is as follows.

Subject/Course Unit	Percentage for the Final Mark		Total
	CA I	CA II	
Anatomy	15%	15%	30%
Physiology	15%	15%	30%
Biochemistry	15%	15%	30%
Fundamentals of Nursing	10%	10%	20%
Fundamentals of Nursing Practice	10%	10%	20%
Psychosocial aspects of Health	30%	10%	40%
Nursing History, Ethics & Professional Development I	20%	20%	40%
Pharmacology in Nursing	-	40%	40%

1.5 Structure of the Continuous Assessment I - First Year

Course Unit	Component	No of Questions	Time Allocation	Marks Allocated	
Anatomy	MCQ	15	01 hour	7.5%	15%
	SEQ	02	01 hour		
	OSPE	10	45 seconds for each	7.5%	
Physiology	MCQ	10	30 minutes	7.5%	15%
	SEQ	02	01 hour	7.5%	
Biochemistry	MCQ	10	30 minutes	7.5%	15%
	SEQ	01	30 minutes	7.5%	
Fundamentals of Nursing	MCQ	20	01 hour	10%	10%
	SEQ	02	01 hour		
Fundamentals of Nursing Practice	Clinical Skills Assessment		* In practice - 30 minutes Viva - 10 minutes	10%	10%
Psychosocial Aspects of Health	Unit 1 - Sociology Written Assignment			15%	30%
	Unit 2 - Psychology Written Assignment			15%	
Nursing History, Ethics & Prof. Development I	Assignment 1 - (Group)	01		20%	20%

* In practice - clinical skills lab

1.6 Structure of the Continuous Assessment II - First Year

Subject/Course Unit	Component	No of Questions	Time Allocation	Marks Allocated	
Anatomy	MCQ	15	01 hour	7.5%	15%
	SEQ	02	01 hour		
	OSPE	10	45 seconds for each	7.5%	
Physiology	MCQ	10	30 minutes	7.5%	15%
	SEQ	02	01 hour	7.5%	
Biochemistry	MCQ	10	30 minutes	7.5%	15%
	SEQ	01	30 minutes	7.5%	
Fundamentals of Nursing	MCQ	20	01 hour	10%	10%
	SEQ	02	01 hour		
Fundamentals of Nursing Practice	Clinical Skills Assessment		*In practice - 50 minutes Viva - 10 minutes	10%	10%
Psychosocial Aspects of Health	Unit 1 - Sociology Written Assignment			5%	10%
	Unit 2 - Psychology Written Assignment			5%	
Nursing History, Ethics & Professional Development I	Assignment - 2	01			20%
Pharmacology in Nursing	OSPE	10 Stations	30 minutes (3 minutes for each each)		40%

* In practice - clinical skills lab and clinical setting

1.7 Bachelor of Science Honours in Nursing - Part I Examination

At the end of the 3rd Term, First Year, there will be Part I Examination. The course units are Anatomy, Physiology, Biochemistry, Fundamentals of Nursing, Fundamentals of Nursing Practice, Psychosocial aspects of Health, Pharmacology in Nursing and Nursing History, Ethics & Professional Development I.

Percentage of marks allocated for each subject is as follows.

Subject/ Course Unit	Marks Allocated
Anatomy	70%
Physiology	70%
Biochemistry	70%
Fundamentals of Nursing	80%
Fundamentals of Nursing Practice	80%
Psychosocial aspects of Health	60%
Nursing History, Ethics & Professional Development I	60%
Pharmacology in Nursing	60%

1.8 Structure of the Bachelor of Science Honours in Nursing - Part I Examination

Subject/Course Unit	Component	No of Questions	Time Allocation	Marks Allocated		Subsequent attempts
Anatomy	MCQ	40	02 hours	22.5%	70%	100%
	SEQ	05	03 hours	22.5%		
	OSPE	20	45 seconds for each	25%		

Physiology	MCQ	30	01 ½ hours	30%	70%	100%
	SEQ	04	02 hours	30%		
	Structured viva		10 minutes	10%		
Biochemistry	MCQ	30	01 ½ hours	30%	70%	100%
	SEQ	03	01 ½ hours	30%		
	Practical	01	30 minutes	10%		
Fundamentals of Nursing	MCQ	40	01 ½ hours	40%	80%	100%
	SEQ	04	02 ½ hours	40%		
Fundamentals of Nursing Practice	Clinical Skills Assessment		*In practice - 01 hour Viva - 10 minutes	80%	80%	100%
Psychosocial Aspects of Health	Unit 1 - Sociology				60%	100%
Unit 1 & Unit 2	MCQ	15	30 minutes	30%		
	SEQ	03	01 hour 30 minutes			
	Unit 2 - Psychology					
	MCQ	15	30 minutes	30%		
	SEQ	03	01 hour 30 minutes			
Nursing History, Ethics & Professional Development I	Portfolio Based Structured Viva	-	10 minutes	20%	60%	100%
	SEQ	02	01 hour	40%		

Pharmacology in Nursing	Clinical Skills Assessment	*In practice - 20 minutes	45%	60%	100%
		Viva - 10 minutes	15%		

* In practice - clinical setting

For subsequent attempts the continuous assessments marks are not counted. Score of each subject of the B.Sc. Hons (Nursing) Part I Repeat examination is converted into 100% and considered as the final mark. In addition, only SEQs will be held in subsequent attempts in Nursing History, Ethics & Professional Development I.

(2) Second Year

The subjects /course units which are assessed in the 2nd year are Community Health Nursing I, Health Teaching & Learning, and Communication Skills in Nursing, Microbiology & Parasitology, Pathology, Pharmacology, Surgical Nursing I and Medical Nursing I.

2.1 Structure of the Continuous Assessments - Second Year

Subject/Course Unit	Components of Assessment	No of Questions	Time Allocation	Marks Allocated
Community Health Nursing I	Structured Viva	05	10 minutes	10%
Health Teaching & Learning	Written Assignment	01		15%
	Group Assignment (Health Education)		In practice - 20 minutes	15%
Communication Skills in Nursing	Reflective Portfolio			20%

2.2 Bachelor of Science Honours in Nursing - Part II Examination

Subject/Course Unit	Marks Allocated
Microbiology and Parasitology	100%
Community Health Nursing I	90%
Health Teaching & Learning	70%
Pathology	100%
Pharmacology	100%
Communication Skills in Nursing	80%
Surgical Nursing I	100%
Medical Nursing I	100%

2.3 The Structure of the Bachelor of Science Honours in Nursing - Part II Examination

Subject	Component of Assessment	No of Questions	Time Allocation	Marks Allocated		Subsequent Attempts
Microbiology & Parasitology	SEQ	Microbiology - 03 Parasitology - 02	2 ½ hours	80%	100%	100%
	Practical/ OSPE	Microbiology - 06 Parasitology - 04	02 minutes for each	20%		
Community Health Nursing I	MCQ	20	1 hour	30%	90%	100%
	SEQ	04	2 hours	40%		
	OSPE	20 Stations	02 minutes for each	20%		

Health Teaching & Learning	MCQ	30	1 hour	30%	70%	100%
	SEQ	03	1 ½ hours	40%		
Pathology	SEQ	05	3 hours	80%	100%	100%
	OSPE	10 Stations	02 minutes for each	20%		
Communication Skills in Nursing	OSPE	06 Stations	05 minutes for each		80%	100%
Pharmacology	MCQ	30	1 ½ hours	50%	100%	100%
	SEQ	03	1 ½ hours	40%		
	Viva		10 minutes	10%		
Surgical Nursing I	MCQ	30	1 hour	20%	100%	100%
	SEQ	03	1 ½ hours	30%		
	Skills Assessment*	OSCE 02 OSPE 04	05 - 10 minutes for each	20%		
		Clinical Skills Assessment	In practice - 1 hour Viva - 10 minutes	30%		
Medical Nursing I	MCQ	30	1 hour	20%	100%	100%
	SEQ	03	1 ½ hours	30%		
	Skills Assessment*	OSCE 02 OSPE 04	05 - 10 minutes for each	20%		
		Clinical Skills Assessment	In practice - 1 hour Viva - 10 minutes	30%		

* Skills assessment components in both Medical Nursing I and Surgical Nursing I subjects will be scheduled together at one time and the marks will be allocated to each subject separately.

For subsequent attempts the continuous assessments marks are not counted. Score of each subject of the B.Sc. Hons (Nursing) Part II Repeat examination is converted into 100% and considered as the final mark.

(3) Third Year

Subjects/course units which are assessed at the end of 3rd year are Surgical Nursing II, Medical Nursing II, Basic Statistics & Nursing Research, Psychiatric & Mental Health Nursing, Maternal Health & Gynaecological Nursing I, Child Health Nursing I and Nutrition and Dietetics.

3.1 Structure of the Continuous Assessments - Third year

Subject	Components of Assessment	Marks Allocated
Basic Statistics & Nursing Research	Assignment I : Literature Review	15%
	Assignment II : Research Critique	15%
		30%
Nutrition and Dietetics	Assignment I : Nutrition	10%
	Assignment II : Dietetics	10%
		20%
Maternal Health & Gynaecological Nursing I	Case Histories - 05	10%
Child Health Nursing I	Case Histories - 05	10%

3.2 Structure of the Bachelor of Science Honours in Nursing - Part III Examination

Subject/Course Unit	Component of assessment	No of Questions	Time Allocation	Marks Allocated		Subsequent Attempts
Surgical Nursing II	MCQ	30	1 hour	20%	100%	100%
	SEQ	03	1 ½ hours	30%		
	Clinical Skills Assessment**		In practice - 1 hour Viva - 10 minutes	50%		
Medical Nursing II	MCQ	30	1 hour	20%	100%	100%
	SEQ	03	1 ½ hours	30%		
	Clinical Skills Assessment**		In practice - 1 hour Viva - 10 minutes	50%		
Basic Statistics & Nursing Research	MCQ	30	1 hour	30%	70%	100%
	SEQ	04	2 hours	40%		
Psychiatric & Mental Health Nursing	MCQ	30	1 hour	30%	100%	100%
	SEQ	04	02 hours	40%		
	Clinical Skills Assessment		In practice - 30 minutes Viva - 10 minutes	30%		
Nutrition & Dietetics	SEQ	04	02 hours	80%	80%	100%
Maternal Health & Gynaecological Nursing I	MCQ	30	1 hour	25%	90%	100%
	SEQ	03	1 ½ hours	25%		
	Skills Assessment	OSPE 10	5 minutes for each	40%		
Child Health Nursing I	MCQ	30	1 hour	25%	90%	100%
	SEQ	03	1 ½ hours	25%		
	Skills Assessment	OSPE 10	5 minutes for each	40%		

** Clinical skills assessment components in both Medical Nursing II and Surgical Nursing II subjects will be scheduled together at one time and the marks will be allocated to each subject separately.

For subsequent attempts the continuous assessments marks are not counted. Score of each subject of the B.Sc. Hons (Nursing) - Part III Repeat examination is converted into 100% and considered as the final mark.

(4) Fourth year

The subjects which are assessed in the 4th year are Maternal Health & Gynaecological Nursing II, Child Health Nursing II, Management in Nursing, Nursing Ethics and Professional Development II, Trends and Issues in Nursing, Research Project, Nursing Elective and Community Health Nursing II.

4.1 Structure of the Continuous Assessments - Fourth Year


Subjects/Course Units	Components of Assessment	Marks Allocated	
Management in Nursing	Assignment I	10%	10%
Nursing Ethics & Professional Development II	Group Presentations	20%	40%
Trends and Issues in Nursing	Group Presentations	20%	

4.2 Structure of the Bachelor of Science Honours in Nursing - Part IV Examination (Section A and Section B)

Bachelor of Science Honours in Nursing - Part IV Examination - SECTION A						
Subjects/Course Units	Component of Assessment	No of Questions	Time Allocation	Marks Allocated		Subsequent Attempts
Maternal Health and Gynaecological Nursing II	MCQ	30	01 hour	25%	100%	100%
	SEQ	03	1 ½ hours	25%		
	Skills Assessment	OSCE 02 OSPE 04	05-10 minutes for each	30%		
		Case Studies 02*		10%		
	Viva		10 minutes	10%		
Child Health Nursing II	MCQ	30	01 hour	25%	100%	100%
	SEQ	03	1 ½ hours	25%		
	Clinical Skills Assessment		In practice - 30 minutes Viva - 15 minutes	50%		
Management in Nursing	MCQ	30	01 hour	30%	90%	100%
	SEQ	04	02 hours	50%		
	Structured Viva		10 minutes	10%		
Nursing Ethics & Professional Development II Trends and Issues in Nursing	Structured Viva	05	15 minutes	20%	60%	100%
	SEQ	04	02 hours	40%		
Community Health Nursing II	Family Case Study Report			40%	100%	100%
	Viva		15 minutes	60%		

Bachelor of Science Honours in Nursing - Part IV Examination - SECTION B

Subjects/Course Units	Component of Assessment	No of Questions	Time Allocation	Marks Allocated		Subsequent Attempts
Nursing Elective (a) Midwifery	Clinical Case		20 minutes	40%	100%	100%
	Viva		15 minutes	20%		
	Case Study Report			40%		
Nursing Elective (b) Trauma Nursing	Clinical Case		20 minutes	40%	100%	100%
	Viva		15 minutes	20%		
	Case Study Report			40%		
Nursing Elective (c) Psychiatric & Mental Health Nursing	Clinical Case		20 minutes	40%	100%	100%
	Viva		15 minutes	20%		
	Case Study Report			40%		
Nursing Elective (d) Elderly Care	Clinical Case		20 minutes	40%	100%	100%
	Viva		15 minutes	20%		
	Case Study Report			40%		
Nursing Elective (e) Palliative care	Clinical Case		20 minutes	40%	100%	100%
	Viva		15 minutes	20%		
	Case Study Report			40%		
Research Project	Final Report			70%	100%	100%
	Presentation and Viva		20 minutes	30%		



Section A and Section B will be considered as two separate examinations for the completion of the requirements for eligibility to sit for each subject/course unit.

For subsequent attempts of B.Sc. Hons (Nursing) Part IV Examination the continuous assessments marks are not counted. Score of each subject of the B.Sc. Hons (Nursing) Part IV Repeat examination is converted into 100% and considered as the final mark. In Nursing Elective subjects only the clinical case and viva will be held at a subsequent attempt. *In Maternal Health and Gynaecological Nursing II, the marks for case studies are not counted for subsequent attempts.

EXAMINATION BY-LAWS AND REGULATIONS


BACHELOR OF SCIENCE HONOURS IN NURSING DEGREE PROGRAMME

UNIVERSITY OF SRI JAYWARDENEPURA

BY-LAWS MADE BY THE COUNCIL OF THE UNIVERSITY OF SRI JAYWARDENEPURA
UNDER SECTION 135 OF THE UNIVERSITIES ACT NO. 16 OF 1978

(Amendments to the existing By-Laws)

1. These by-laws may be cited as the Bachelor of Science Honours in Nursing Degree (B.Sc. Nursing) by-laws.
2. Subject to these by-laws a candidate may be awarded the degree of Bachelor of Science Honours in Nursing if he /she:
 - a. has been admitted as an internal student of the University and
 - b. has been registered as a student of the University for a period not less than four years and
 - c. has completed the courses of study prescribed by the By-Laws, rules and regulations, to the satisfaction of the Vice-Chancellor, and
 - d. has passed each subject/course unit of the degree through evaluation at the end of each year examination and
 - e. has paid such fees or other dues as may be prescribed by the University and
 - f. has fulfilled any other conditions or requirements as may be prescribed by the University.
3. The examinations leading to the degree of Bachelor of Science Honours in Nursing Degree Programme shall be:
 - (i) The Bachelor of Science Honours in Nursing - Part I Examination,
 - (ii) The Bachelor of Science Honours in Nursing - Part II Examination,
 - (iii) The Bachelor of Science Honours in Nursing - Part III Examination,
 - (iv) The Bachelor of Science Honours in Nursing - Part IV Examination (Section A and Section B)
4. The subjects, courses of study and syllabi for the examinations leading to the degree of Bachelor of Science Honours in Nursing and the number of papers, oral examinations and other forms of evaluation in each subject shall be prescribed by the regulations made by the Senate.

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5. Each of the examinations prescribed by these by-laws and the regulations there under shall be conducted by a Board of Examiners constituted for the conduct of that examination.
 6. A candidate shall present him/herself for each examination leading to the Bachelor of Science Honours in Nursing on the first occasion at which he/she is required to do so provided that it shall be within the power of the Senate to declare that he/she is eligible to appear for that examination on a subsequent occasion.
 7. A candidate may be granted permission to postpone a scheduled attempt on the basis of a *valid excuse submitted and accepted by the Senate and the attempt at which he/she sits the examination after the postponement shall be regarded as the attempt for which he/she has submitted a valid excuse. Section A and B of Bachelor of Science Honours in Nursing - Part IV Examination will be considered separately for the above purpose.

* Valid excuses for examinations

- (i) Medical certificate acceptable to the Senate. The medical certificate should be submitted within 14 days of conclusion of the exam/part of the exam.
 - (ii) Death of immediate family member (parent/brother/sister/if married spouse, children) one week prior to the examination or during the examination (the death certificate should be submitted for approval of the Senate).
8. In the absence of an accepted excuse, failure to sit any due or scheduled examination shall be considered as an unsuccessful attempt at that examination.
 9. The candidate should be eligible to sit all course units of an examination before the candidate is issued admission for that particular examination.
 10. If a candidate has obtained a grade less than C for a particular course unit/subject in a previous attempt, he/she shall issued admission to sit that particular course unit/subject in a subsequent examination.
 11. The candidate should have a minimum of 80% attendance at tutorials, practicals and satisfactory completion of nursing clinical experience in each clinical placement for a particular course unit to be eligible to sit for that course unit.


12. If, absence for tutorials practicals and clinical placements is covered by a valid excuse acceptable to the Senate, the candidate will be eligible to sit for the next scheduled examination only after completion of 80% attendance for tutorials, practical, and clinical placements. If this scheduled examination is the candidate's first attempt and the valid excuse is acceptable, the candidate will be eligible for a grade above C.
13. If the candidate fails to sit for a course unit/subject without a valid excuse acceptable to the Senate, the candidate will receive zero marks for that course unit and will fail the whole examination. A candidate should take the entire examination next time as his/her second/subsequent attempt. The candidate would not be eligible for a grade above C.
14. In the event a candidate fails to sit some of the subjects/course units or some subcomponents of a subjects/course units due to a valid excuse, the candidate should sit the particular course subjects/course units at a subsequent examination. The maximum grade that the candidate could obtain for the particular course units at the next scheduled examination will be C.

Or

The candidate could request the whole examination to be considered null and void and take all the components/subjects/course units at the next scheduled examination, which would be considered as his/her first attempt. The candidate would therefore be eligible for a grade above C.

Subjects/course units (e.g. elective course units, research project and Community Health Nursing II) in which the final assessments are completed separately from the main examination will be exempted in this case, and results of those subjects/course units will be considered together with the results of the whole examination when released at the next scheduled attempt.

15. When a candidate sits an examination in the second or subsequent attempt, in-course assessment marks will not be taken into consideration.
16. A candidate, who is absent with a valid excuse acceptable to the Senate for an in-course assessment of any subjects/course unit, he/she will be given the opportunity to sit that particular subject/course unit in the respective in-course assessment with the next batch of students if possible or to sit for another in-course assessment, the format of which would be decided by the Coordinator of the respective courses.

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17. If a candidate is unable to sit for one/more subjects/course unit/s of an in-course assessment without a valid excuse acceptable to the Senate to cover the absence, he/she will be given a zero mark for the subjects/course unit/s in the in-course assessment.
 18. A candidate who obtains a grade less than C shall have to repeat the relevant subject in the subsequent examination in order to improve the grade. However, only three attempts shall be permitted to do so within the maximum number of years permitted to complete the degree course.

19. **English Language Competency Test (ELCT)**

- 19.1 Passing the English Language Competency Test (ELCT) is compulsory to obtain the B.Sc. Hons (Nursing) certificate.
 - 19.2 If a candidate fails to achieve the pass mark at the English Language Competency Test (ELCT) conducted at the end of the Bachelor of Science Honours in Nursing Part I Examination, he/she will be required to pass the ELCT at a subsequent Examination before the award of the Bachelor of Science Honours in Nursing
- 20.
- 20.1 A candidate who has been successful at all examinations B.Sc. Hons (Nursing) may be awarded First Class Honours or Second Class Honours (Upper Division) or Second Class Honours (Lower Division) or a Pass, as the case may be.
 - 20.2 A candidate shall not be eligible for first or second class honours, unless he/she has passed the examination on the earliest occasion on which he/she is qualified to do so, provided that it shall be within the power of the Senate to declare, for some specified reason, that he/she is eligible for first or second class honours at a subsequent attempt.

21. **Evaluation of Course Marks**

21.1 **Course Units**

A course unit may consist of one or more components such as lectures, tutorials, practicals, hospital based training, community based training, computer based, self-directed learning and research work.

21.2 **Credit Values of Course Units**

Each course unit has a defined credit value ranging from 2.0 to 8.0. One credit consists of approximately 15 lecture hours or 30 laboratory hours or 50 hours of field studies/clinical work.

21.3 **Method of Assessment**

- (i) Candidate's performances at each course unit examination is assessed and graded by one or more of theory examinations, laboratory practical and clinical examinations, oral examinations, portfolio, assignment and project report evaluation or any other assessment specified by the University.
- (ii) When a candidate sits for an examination in the second or subsequent attempt, his/her in-course assessment, assignments and portfolio marks will not be taken into consideration.
- (iii) The course shall be of 3 terms duration and in-course assessments will be held as specified in the curriculum.
- (iv) End of year examination will be held at the end of the third term of each academic year or as specified in the curriculum, and a repeat examination will be held not less than 6 weeks after the date of releasing the results of the previous examination.

21.4 **Grading Scale**

A candidate's performance is graded on a 12 point scale, which ranges from A+ (outstanding) to E (bad). The grading scale is given below. The letter "M" is given for medical and "Ab" is given for absence.

Grade	Range of Marks	Grade Point	Implication
A+	80 - 100	4.0	Outstanding
A	75 - 79	4.0	Exceptional
A-	70 - 74	3.7	Very Good - Excellent
B+	65 - 69	3.3	Very Good
B	60 - 64	3.0	Good
B-	57 - 59	2.7	Fair - Good
C+	54 - 56	2.3	Fair
C	50 - 53	2.0	Satisfactory
C-	45 - 49	1.7	Weak - Satisfactory
D+	40 - 44	1.3	Weak
D	30 - 39	1.0	Bad - Weak
E	00 - 29	0.0	Bad
Ab	-	0.0	Absent without valid reason
M	-	0.0	Absent on Medical reasons

21.5 **Passing Subject/Course Unit Examination**

A candidate who scores a grade C or above is considered to have passed the relevant subjects/course unit.

21.6 **Grade Point Average (GPA)**

Grades obtained by each candidate at subject/ course unit examinations are evaluated according to the following equation in order to calculate his/her Grade Point Average. This value will be rounded to a single decimal point.

$$\text{GPA} = \frac{\sum \text{Grade point scored for the course unit} \times \text{Credit value of the course unit}}{\text{Cumulative credit value of all course units followed}}$$

22. **Passing Examinations**

- 22.1. A candidate who obtains minimum of 45% in theory, 50% in practical and an overall average of 50% or above in a course unit/subject shall be considered to have passed in that subject/course unit.
- 22.2 A candidate who obtains less than 45% in theory and/or less than 50% in practical with an overall average of 50% or above in a course unit/subject shall be given a grade of C-.
- 22.3 A candidate shall be deemed to have passed in a subject/course unit if he/she obtained an overall grade of C or above.
- 22.4 A candidate shall be deemed to have not completed a course unit and who is absent or attendance less than 80% for tutorials and practicals and clinical placements, shall be given a symbol of "ab" (absent without valid reason) or "M" (absent on medical reason).
- 22.5 A candidate who obtains a grade less than C shall have to repeat the relevant course unit/subject in the subsequent examination in order to improve the grade up to C.
- 22.6 A repeat examination will be held after six weeks of releasing the results of only end of year examinations.

- 22.7 A candidate who repeats course units/subjects of an examination shall not be eligible to obtain more than 50% (minimum mark given for a 'C' grade) for each of the course units which he/she repeats irrespective of the actual marks obtained.
- 22.8 A candidate who obtains less than 25% in any one course unit/subject of an examination will be considered as having failed the whole examination and will have to re-sit the whole examination.

23. Completion of Degree Bachelor of Science Honours in Nursing

23.1 Requirements for Bachelor of Science Honours in Nursing Graduation

In order to graduate with a B.Sc. Hons (Nursing) degree a candidate shall have:

- (i) Completed course units of 130 credits
- (ii) Earned a minimum overall GPA of 2.0 for the entire degree program of four years duration and no grade below C.
- (iii) Passed the English Language Competency Test (ELCT) and, fulfilled all the requirements in 23.1 (i), 23.1 (ii), and 23.1 (iii) above within a maximum of eight academic years from the first academic year of registration. This includes the period of extension permitted with valid reasons.

23.2 Effective Date of the Degree

The effective date of the degree shall be the date following the last date of the stipulated examination. To be eligible for the effective date, a candidate shall fulfill the requirements given in section 23.1.

24. Award of Classes

24.1 First Class Honours

A candidate shall meet all the following requirements in order to be awarded a degree with a First Class Honours.

- (i) The candidate shall have earned an overall GPA of 3.7 or above in the entire degree program.
- (ii) The candidate shall have earned grades of A- (A minus) or above in at least half the course units in the degree program.
- (iii) The candidate shall have earned no grades below C during the entire degree program.

- (iv) The candidate shall have fulfilled these requirements within four academic years from the first academic year of registration other than due to an approved valid reason.

24.2 **Second Class (Upper Division) Honours**

A candidate shall meet all the following requirements in order to be awarded a degree with a Second Class (Upper Division) Honours.

- (i) The candidate shall have earned an overall GPA of 3.3 or above in the entire degree program.
- (ii) The candidate shall have earned grades of B+ or above in at least half the course units in degree program.
- (iii) The candidate shall have earned no more than two grades below C during the entire degree program.
- (iv) The candidate shall have fulfilled these requirements within four academic years from the first academic year of registration other than due to an approved valid reason.

24.3 **Second Class (Lower Division) Honours**

A candidate shall meet all the following requirements in order to be awarded a degree with a Second Class (Lower Division) Honours.

- (i) The candidate shall have earned an overall GPA of 3.0 or above in the entire degree program.
- (ii) The candidate shall have earned grades of B or above in at least half the course units in degree program
- (iii) The candidate shall have earned no more than three grades below C during the entire degree program.
- (iv) The candidate shall have fulfilled these requirements within four academic years from the first academic year of registration other than due to an approved valid reason.

25. **Examination Format**

25.1 **Assessment of Individual Course Units**

- (i) The course unit coordinators will identify the appropriate content for assessment in each course unit.
- (ii) Submission dates for all work to be assessed shall be fixed by the course unit coordinator and notified to candidates at the start of the term.

- (iii) Candidates who do not have 80% attendance for tutorials/ skills lab practical sessions and clinical placements will not be eligible to sit the examination.
- (iv) The marks allocated for different components of the course unit assessment will be proportional to the learning/teaching activities carried out for each course unit.

25.2 **Bachelor of Science Honours in Nursing**

The board of examiners shall oversee the assessment of each unit, and evaluate the candidate's progression at the end of each academic year and make recommendations to the Faculty.

26. **Effective Batch**

These by-laws shall be effective from 2016/2017, intake onwards.

Lateral entry to the Bachelor of Science Honours in Nursing Degree Programme University of Sri Jayewardenepura

Eligibility criteria for lateral entry to the Bachelor of Science Honours in Nursing Degree Programme

- Passed in Biology (Zoology and Botany), Chemistry, Physics for GCE (A/L) in one sitting
- Minimum three years of service in state sector* at the time of closure of application.
- Below 40 years at the time of closure of application (Upper limit of age can be decided by Senate and Council in exceptional circumstances)
- At least a Pass (S) in English for GCE (O/L) Examination
- Registration in the Sri Lankan Nursing Council/Ceylon Medical College Council.
- Selection to be based on the aptitude test and interview.
- Appropriate fitness for the selected field of study

* Admission of candidates from the University system - Nurses of the University Health Center (as long as it is within the percentage allocated for lateral entry students and the candidate has approval from the department and university to follow the course).

In addition the following should be noted;

- Ratio of lateral entry student to direct entry student is 1:5
- Minimum number of academic years in the University should be 3

Registered nurses employed in the Ministry of Health who have fulfilled the eligibility criteria to sit the selection examination are eligible to enter the second year of the Bachelor of Science Honours in Nursing Degree Programme. They are exempted from the first year of the course of study in lieu of the Diploma in Nursing which they have already obtained.

The above prescribed Examination By-Laws and Regulations for Bachelor of Science Honours in Nursing Degree Programme, University of Sri Jayewardenepura under Section 135 of the Universities Act No. 16 of 1978 are applicable to the lateral entrants except where the below regulations are pertinent;

1. The lateral entrants,
 - 1.1 are exempted from the first year of the course of study and the Year 1 End Course examination, and are eligible to enter the second year of the degree programme.
 - 1.2 may be awarded the degree of Bachelor of Science Honours in Nursing if he/she has been registered as a student of the University for a period not less than 3 years.
2. GPA for lateral entry students is calculated according to the same equation considering only the course units from the second year onwards (excluding the course units of the first year).
3. In order to graduate with a Bachelor of Science Honours in Nursing degree a candidate of lateral entry shall have:
 - (i) Completed course units of 96 credits from second to fourth year.
 - (ii) Earned a minimum overall GPA of 2.0 for the entire degree program of three years duration and no grade below C.
 - (iii) Passed the English Language Competency Test (ELCT)and,
fulfilled all the requirements in 3(i), 3(ii), and 3(iii) above within a maximum of six academic years from the registration. This includes the period of extension permitted with valid reasons.

Uniform Policy

Students who follow B.Sc. (Honours) Nursing Degree program should wear the designated white uniforms that carry the university logo in blue during their clinical training and for clinical/practical examinations held in both hospitals and university. The female students wear a white frock below knee length with white shoes and socks and male students white short-sleeved shirt, coat and a trouser with formal shoes. All students must have a badge attached to the uniform, which carries their designation, name, student batch and name of the University. Heavy make-up, hairstyling, strong perfumes, jewellery, dangling earrings are not allowed.



**BACHELOR OF PHARMACY AND PHARMACEUTICAL SCIENCES
(HONOURS)**

1. Overview of the Curriculum

The Bachelor of Pharmacy curriculum has been designed to impart knowledge in Pharmaceuticals.

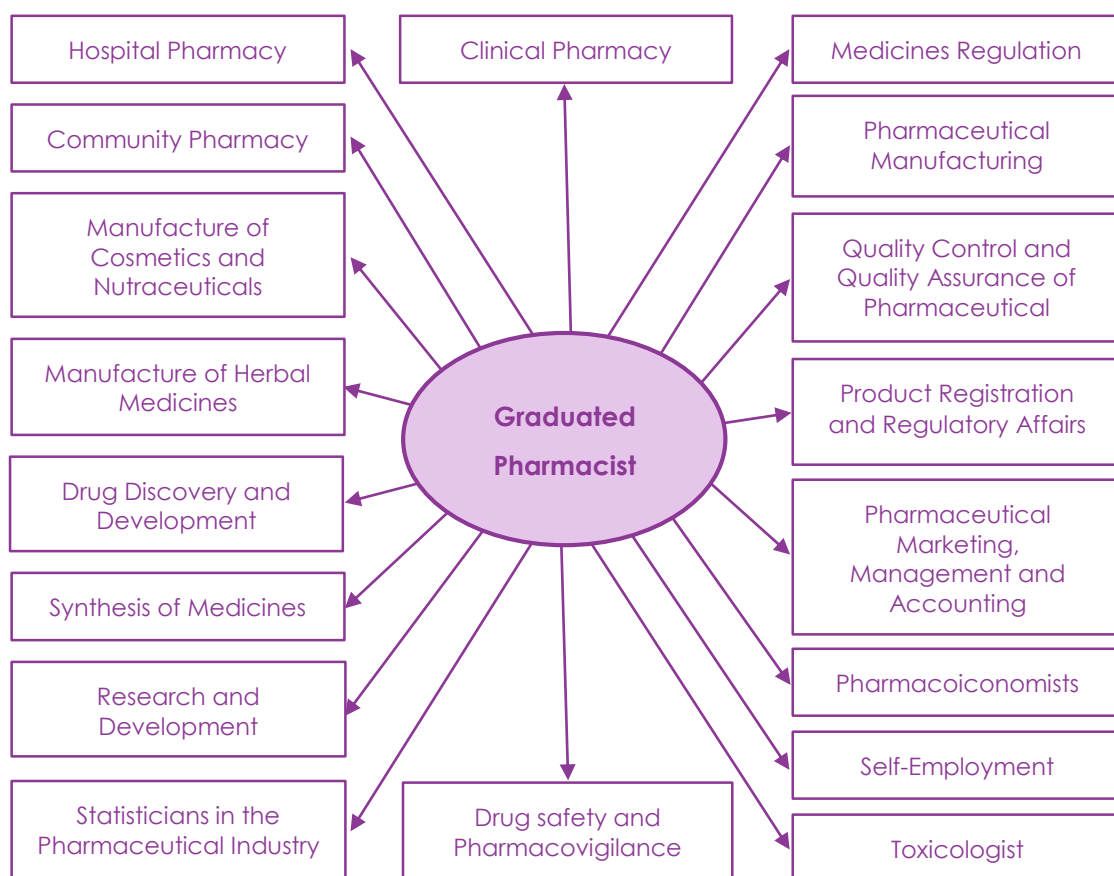
There are 2 major areas in pharmacy namely,

- i. Pharmaceutical Science (addresses production and development of pharmaceuticals)
- ii. Pharmacy Practice (offers services to the health care delivery system).

The curriculum incorporates both pharmacy practice and pharmaceutical science equally so that the graduates who complete the course will be able to select their area of interest when deciding their career pathways.

Objectives of Training

To produce graduate with knowledge and understanding of the sciences, technologies and practices which underpin as a profession and together with the clinical skills gained in the fourth year of the course, to have acquired the competencies suitable for registration (Sri Lanka Medical Council) as pharmacists, capable of building a career in any branch of Pharmacy as shown in the following diagram.



Graduate Profile

- Be a graduate equipped with required knowledge and skills to practice in the profession of pharmacy towards national and global development.
- Be a committed, responsible, compassionate and sensitive citizen with proper attitudes.
- Be capable of undertaking tasks and building up a career in any branch of pharmacy namely, manufacture, quality assurance and regulatory affairs of pharmaceuticals, pharmacy practice and clinical pharmacy, discovery and development of new medicines, and pharmaceutical marketing and management.
- Be able to develop an evidence-based care plan for medicine therapy and follow-up on the patient's expected health outcomes.
- Undertake an effective pharmaceutical care process through an effective relationship with the patient and other members of the healthcare team.
- Collaborate and network with other stake holders to uplift the quality of products and services.
- Be a creative, innovative and discovery oriented scientist with an aim to contribute significantly to improve global health.
- Be able to use novel technologies and practices towards enhancing the efficiency and productivity of processes and services.
- Be a professional with problem-solving skills in practical situations.
- Be an entrepreneur with good leadership potential to serve the society.
- Be an independent and collaborative researcher in the pharmacy practice and pharmaceutical science.
- Apply and adhere to the legal, ethical and safety standards in pharmacy.
- Be a graduate having attributes for lifelong independent learning and career development.

Programme Learning Outcomes

At the end of the undergraduate course, graduates are expected:

- 1 To be able to describe key concepts related to pharmacy practice and pharmaceutical sciences.
- 2 To be competent with required practical skills to apply efficiently and effectively in pharmacy practice and pharmaceutical sciences.
- 3 To be able to integrate and apply key concepts related to pharmacy practice and pharmaceutical sciences in professional practice.

- 4 To be competent in critically analyzing, effective decision making and solving problems encountered in practical situations.
- 5 To have acquired sufficient communication skills to be able to practice competently in Pharmacy and related professions.
- 6 To act as an essential member of the healthcare team and effectively link with patients to strive for better healthcare.
- 7 To become an ethical, accountable, and compassionate professional with positive attitudes and social responsibility in health care.
- 8 To become an entrepreneur with good leadership qualities and innovative approaches for the betterment of the society.
- 9 To be competent in acquiring, critically appraising, utilizing and disseminating relevant information using appropriate ICT skills.
- 10 To be able to adjust to dynamic situations in the profession to deliver best possible services to the society
- 11 To always prioritize in patient well-being in any given situations through professional, moral, ethical and legal conduct.
- 12 To plan future goals, and accordingly have a commitment to develop required competencies and build upon their knowledge by continuing the educational process throughout their careers.

2. Organization of Academic Content

Orientation Programme

The orientation programme is conducted before commencing the first academic year. Activities in English, computer skills, psychology and sociology are conducted during the orientation period.

First Year - B. Pharm PART I

B. Pharm Part I commences after the orientation program and then spans over 3 terms. The first year course units of the curriculum provide knowledge on the basic sciences. Five subjects are included in the first year.

Course No	Subject	Lecture Hrs	Credits	Practical Hrs	Credits	Total	
						Hrs	Credits
101	Physical Pharmacy	105	7	30	1	135	8
102	Pharmaceutical Chemistry	75	5	60	2	135	7
103	Anatomy and Physiology	90	6	45	1	135	7
104	Biochemistry	45	3	60	2	105	5
105	Mathematics, and IT	30	2	30	1	60	3
	English Language	60	-	-	-	60	-
	Total	405	23	225	7	630	30

Physical Pharmacy

This subject provides the physicochemical basis of pharmaceuticals to other areas such as pharmaceutical formulation, drug delivery, pharmaceutical analysis, radiopharmaceuticals and medicinal chemistry which are taught later in the curriculum. One cannot design formulations without a comprehensive knowledge of the chemistry of a drug substance nor study how medicines behave in the laboratory or in patients without good analytical methodology.

Pharmaceutical Chemistry

This subject equips students with basic knowledge about drug chemistry in order to be in a position to understand later components. Drugs being mostly organic molecules, the student is educated on how drugs are made, how they behave chemically and physically and how they interact with other molecules in the human body.

The active and inactive ingredients of most formulations are pure chemicals; therefore, a thorough knowledge of chemistry of these chemicals is essential for a pharmacist who is continuously dealing with pharmaceutical substances. The course includes study of various classes of aliphatic and aromatic compounds, heterocyclic compounds, stereochemistry, biomolecules and inorganic pharmaceuticals. The course also introduces the students to basic stereochemistry and to the chemistry of heterocyclic compounds. Stereochemistry is important because the action and specificity of many drugs is influenced by the three-dimensional structure of the molecule. Heterocyclic chemistry is a special branch of organic chemistry. This class of compounds is very important because many drugs from both natural and synthetic sources are heterocyclic or derivatives thereof.

Anatomy Physiology

Anatomy is a basic science subject dealing with the normal structure of the human body. Learning anatomy lays the foundation to understand other basic science subjects and clinical subjects in subsequent years. Physiology is the study of normal functioning and phenomenon of living things. It is a biological science with particular aims of describing, explaining and understanding how living things work or function; and the intricate control system and regulatory mechanisms that permit the body to operate and survive in an often hostile environment.

Biochemistry

Biochemistry is a basic science subject on which most biological sciences find their foundation. It entails the fundamental concepts of chemistry of life, which includes structural organization, energy interconversion, signal transduction and finally genetic information storage and flow. Recent developments in Molecular Biology are also embodied in Biochemistry.

Mathematics and Information Technology

The basic sciences, mathematics and information technology are important tools for the practice of Pharmacy; a pharmacist uses mathematics in dispensing prescriptions, in determining proper drug dosage levels, in preparing formulas, in biopharmaceutical studies, in management procedures, and in certain chemical calculations.

Second Year - B. Pharm PART II

The curriculum of the second year onwards offers knowledge, skills and attitudes required to functions as a pharmacist in different areas of pharmacy.

Course No	Subject	Lecture Hrs	Credits	Practical Hrs	Credits	Total	
						Hrs	Credits
201	Pharmaceutics	45	3	60	2	105	5
202	Pharmaceutical Analysis	75	5	60	2	135	7
203	Pathophysiology and Pharmacology	60	4	-	-	60	4
204	Pharmaceutical Microbiology	45	3	60	2	105	5
205	Pharmacognosy	75	5	60	2	135	7
206	Pharmacy Law and Ethics	45	3	-	-	45	3
	Internship	Noncredit hours					
	Total	345	23	240	8	585	31

Pharmaceutics

Pharmaceutics can be defined as the science of dosage forms. This subject introduces the student to different types of dosage forms, types of extraction processes, principles of dosage form design and labeling and packaging requirements for pharmaceutical products.

Pharmaceutical Analysis

Pharmaceutical analysis which is a part of Pharmaceutical Chemistry emphasizes on the basic techniques and instrumentation used for the analysis of pharmaceuticals. It introduces all kinds of qualitative and quantitative analytical methods described in pharmacopoeial monographs. The course provides knowledge and skills required for drug quality control and quality assurance, research and product development.

Pathophysiology and Pharmacology I

This subject is concerned with understanding the action of drugs in the body. Attention is given to the various types of medicines, effects of various doses of each medicinal substance and to the different ways in which medicines can be introduced into the body.

Pharmaceutical Microbiology

In this subject, the student is introduced to the bacterial and fungal species that are of importance in pharmacy and medicine. Essentially the subject

covers their classification, structure, growth, cultivation and control. The course also covers general microbiological techniques, sterilization and sterility testing of pharmaceutical products, microbial spoilage and preservation of pharmaceutical products. It also covers immunology, virology and parasitology.

Pharmacognosy

Pharmacognosy deals with natural products which are of medicinal or pharmaceutical importance. pharmacognosy is a multidisciplinary subject which comprises parts of botany, organic chemistry, biochemistry and pharmacology. The course introduces students with knowledge on official and locally available crude drugs with special emphasis on their geographical distribution, chemical constituents, medicinal or pharmaceutical uses, substitutes and adulterants. The course also covers pharmaceutical botany, plant growth regulators, extraction, isolation and identification of important constituents of plants and animals.

Pharmacy Law and Ethics

This subject deals with general principles of the law and regulations pertaining to the use of medicines in Sri Lanka. It provides students with a knowledge required for regulatory pharmacy practice and professional and ethical attitude to the practice of pharmacy.

Third Year - B. Pharm PART III

Course No	Subject	Lecture Hrs	Credits	Practical Hrs	Credits	Total	
						Hrs	Credits
301	Pharmacy Practice	45	3	-	-	45	3
302	Pharmaceutical Technology	60	4	60	2	120	6
303	Hospital and Community Pharmacy	45	3	60	2	105	5
304	Pharmacology and Toxicology	60	4	60	2	120	6
305	Applied Pharmacognosy	60	4	60	2	120	6

306	Pharmaceutical Marketing, Management and Accounting	75	5	-	-	75	5
307	Biostatistics	30	2	30	1	60	3
	Internship	Noncredit hours					
	Total	375	25	270	9	645	34

Pharmacy Practice

The subject is designed to provide students with a knowledge and understanding of a range of areas important to the practice of pharmacy and an ability to apply that knowledge and understanding in practice-oriented situations. It emphasizes on national drug policy, essential drug concept, rational drug use, dispensing, pharmacoconomics, pharmacoepidemiology and research methodology.

Pharmaceutical Technology

The subject imparts knowledge on pharmaceutical formulation and preparation of various dosage forms, industrial processes and quality control. In addition, knowledge and skills on how new drugs are developed and how to design facilities for improved drug manufacturing are taught.

Hospital and Community Pharmacy

The subject introduces the concepts of hospital pharmacy and its organization, therapeutic committee, concepts of hospital formulary, dispensing of drugs to inpatients and ambulatory patients, and purchase, distribution and inventory control of drugs and safe use of medications. It also imparts knowledge on community pharmacy and social aspects of pharmacy.

Pharmacology and Toxicology

In this subject basic knowledge of pharmacology is enhanced to develop a detailed understanding of the action of drugs in the body, individual drug classes, their side effects and introduces which therapeutics areas they could be used in. Toxicology covers the effects of acute and chronic poisoning from medicines and other toxic substances. Students will learn how these substances impart their toxic effects.

Applied Pharmacognosy

The subject provides knowledge on factors affecting the quality of crude drugs and pharmacognostical methods used in quality control. The subject also covers the methods used in the discovery and development of new medicines from natural source, marine drugs, global background of the use of medicinal plants, effect of plant constituents on the immune system, biosynthesis of important plant constituents and chemotaxonomy.

Pharmaceutical Marketing Management and Accounting

The subject introduces the student to pharmaceutical management, accounting, marketing, merchandising, basic economics which are required to function as a pharmaceutical manager/ administrator, drug derailments in private and public pharmacy organizations such as drug manufacturing firms, drug importing firms, drug regulatory bodies and community pharmacies.

Biostatistics

Correct application of statistical concepts and meaningful interpretation of statistical data in a given situation is a core skill required of a graduate pharmacist. This skill is specially required when conducting good quality research, meaningful dissemination of research findings, and in critical appraisal of research evidences. This course unit comprises of a theory and practical component where students are exposed to a training on appropriate use of both descriptive and inferential biostatistics and to a basic knowledge on using statistical software in this process.

Fourth Year - B. Pharm PART IV

Course No	Subject	Lecture Hrs	Credits	Practical Hrs	Credits	Total	
						Hrs	Credits
401	Biopharmaceutics	45	3	-	-	45	3
402	Medicinal Chemistry	90	6	60	2	150	8
403	Clinical Pharmacy	60	4	60	2	120	6
404	Pharmaceutical Biotechnology	45	3	-	-	45	3
405	Pharmacotherapeutics	30	2	-	-	30	2
406	Project Report	-	-	240	8	240	8
	Internship	Noncredit hours					
	Total	270	18	360	12	630	30

Biopharmaceutics

The subject provides the knowledge on movements of drugs from the time they are taken to the time they are cleared from the body. It covers the study of multiple dose pharmacokinetics, bioavailability and bioequivalence and non linear pharmacokinetics.

Medicinal Chemistry

Medicinal chemistry deals with discovery and development of new medicines, drug synthesis, mechanisms of drug action and structure activity relationships (SAR) of drugs. The subject covers the medicinal chemistry of current therapeutic agents. Aspects that are significant for the practice of pharmacy are emphasized. It also covers disconnection approach in drug synthesis, stereochemistry and pharmacological activity, bioassay techniques for drug development and computer aided drug design.

Clinical Pharmacy

A clinical pharmacist plays an important role in the modern healthcare delivery system.

Providing pharmaceutical care for patients is a core responsibility of a clinical pharmacist where individualized and responsible medicine related care is directed towards the patient in order to achieve definite therapeutic outcomes and improvement in patients' quality of life. A clinical pharmacist ensures medication safety through obtaining a detailed medication history from patients, reconciling and reviewing the appropriateness of medicines and through identification of any drug related problems (DRPs). They are also entrusted upon providing evidence based medicine information to healthcare professionals and patients, counselling patients on their medication therapy, monitoring medicine therapy to ensure that drug therapy is optimized and detecting, reporting and causality assessment of adverse drug reactions (ADRs) among in-patients and out-patients.

This course unit is designed and aimed at educating the student on core concepts related to providing pharmaceutical care and to acquire basic skills on disseminating this service to patients. The subject comprises of a theory and practical component which ensures these core concepts are inculcated among students. To ensure basic concepts are understood correctly, students get the opportunity to directly communicate with patients during their training where they will actively indulge in activities related to pharmaceutical care. In this course unit, students are emphasized on ethical practices expected of a clinical pharmacist and the spirit of working in a multidisciplinary healthcare team, avoiding overstepping the boundaries of a clinical pharmacist.

Pharmaceutical Biotechnology

The subject introduces the student to molecule biology and genetic engineering, application of recombinant DNA technology and genetic engineering in the production of biopharmaceuticals, fermentation technology, enzyme biotechnology and animal biotechnology. This also imparts the knowledge on development of biotechnological pharmaceutical products and down stream processing.

Pharmacotherapeutics

This course is aimed at describing the pharmacotherapy and critically analyzing the drugs used in the management of common diseases. This course trains students to critically review and evaluate medicines used in common diseases with regards to, appropriateness of prescribed medicine to the individual patient, correct monitoring (effect, dose, duration and route), and safety (drug interactions and potential adverse drug reactions). The knowledge obtained in this course unit is required to disseminate clinical pharmacy services to patients.

Research Project

The research project provides students with the opportunity to study in depth on a topic relevant to pharmacy. The project may be laboratory, hospital or community based. During the project, students will utilize and further expand written communication skills developed earlier in the course. The project begins at the beginning of the 4th year and concludes at the end of 4th year with a written report plus a viva-voce examination.

In-Course Work Experiences

Students are offered to follow internship training during the course at the Cosmetics, Devices and Drugs Authority, Medical Supplies Division, National Drugs Quality Assurance Laboratory, Hospitals (Teaching and Base Hospitals), State Pharmaceuticals Manufacturing Corporation, State Pharmaceuticals Corporation, Medical Research Institute and Raajya Osu Sala.



EXAMINATION STRUCTURE

(Batch 2016/2017 & Onwards)

FIRST YEAR

PH 101 : PHYSICAL PHARMACY					
FIRST ATTEMPT				SECOND, THIRD AND FOURTH ATTEMPTS	
INCOURSE ASSESSMENT	END COURSE ASSESSMENT			END COURSE ASSESSMENT	
THEORY	THEORY	PRACTICAL		THEORY	PRACTICAL
1 hour	3 hours		3 hours	3 hours	3 hours
2 SEQ	4 SEQ	20 MCQ	-	4 SEQ	20 MCQ
	60%	40%		60%	40%
20%	60%		20%	80%	20%

PH 102 : PHARMACEUTICAL CHEMISTRY					
FIRST ATTEMPT				SECOND, THIRD AND FOURTH ATTEMPTS	
INCOURSE ASSESSMENT		END COURSE ASSESSMENT		END COURSE ASSESSMENT	
THEORY	PRACTICAL	THEORY	PRACTICAL	THEORY	PRACTICAL
1 hour	3 hours	3 hours	3 hours	3 hours	6 hours (3 hrs + 3 hrs)
2 SEQs 60 %	40 %	6 SEQs	-	6 SEQs	-
20%		60%	20%	70%	30%

PH 103 : ANATOMY AND PHYSIOLOGY

FIRST ATTEMPT			SECOND, THIRD AND FOURTH ATTEMPTS	
INCOURSE ASSESSMENT	END COURSE ASSESSMENT		END COURSE ASSESSMENT	
THEORY	THEORY	OSPE	THEORY	OSPE
1 hour	2 hours	45 min	2 hours	45 min
Anatomy 07 MCQs Physiology 13 MCQs 50%	Anatomy 10 MCQs Physiology 30 MCQs 50%	Anatomy 10 OSPE Physiology 05 OSPE	Anatomy 10 MCQs Physiology 30 MCQs 50%	Anatomy 10 OSPE Physiology 05 OSPE
1.5 hours	2 hours	-	2 hours	-
Anatomy 01 SEQ Physiology 02 SEQs 50%	Anatomy 01 SEQ Physiology 03 SEQs 50%	-	Anatomy 01 SEQ Physiology 03 SEQs 50%	-
20%	60%	20%	80%	20%

PH 104 : BIOCHEMISTRY

FIRST ATTEMPT			SECOND, THIRD AND FOURTH ATTEMPTS	
INCOURSE ASSESSMENT	END COURSE ASSESSMENT		END COURSE ASSESSMENT	
THEORY	THEORY	PRACTICAL	THEORY	PRACTICAL
1 hour	3 hours	1 hour	3 hours	1 hour
2 SEQs	4 SEQs 20 MCQs 60%	- 40%	4 SEQs 20 MCQs 60%	- 40%
20%	60%	20%	80%	20%

PH 105 : MATHEMATICS AND IT

FIRST ATTEMPT				SECOND, THIRD AND FOURTH ATTEMPTS	
INCOURSE ASSESSMENT		END COURSE ASSESSMENT		END COURSE ASSESSMENT	
THEORY	PRACTICAL	THEORY	PRACTICAL	THEORY	PRACTICAL
1 hour	1 hour	2 hours	2 hours	2 hours	2 hours
Mathematics 06 SAQs 50 %	Information Technology 50 %	Mathematics 15 SAQs	Information Technology	Mathematics 15 SAQs	Information Technology
20%		60%	20%	70%	30%

SECOND YEAR

PH 201 : PHARMACEUTICS

FIRST ATTEMPT			SECOND AND SUBSEQUENT ATTEMPTS		
INCOURSE ASSESSMENT	END COURSE ASSESSMENT		END COURSE ASSESSMENT		
THEORY	THEORY	PRACTICAL	THEORY	PRACTICAL	
1 hour	3 hours		3 hours	3 hours	
2 SEQ	5 SEQ	10 MCQ	-	5 SEQ	10 MCQ
	80%	20%		80%	20%
20%	60%		20%	80%	

PH 202 : PHARMACEUTICAL ANALYSIS

FIRST ATTEMPT				SECOND AND SUBSEQUENT ATTEMPTS		
INCOURSE ASSESSMENT	END COURSE ASSESSMENT			END COURSE ASSESSMENT		
THEORY	THEORY	PRACTICAL	STRUCTURED VIVA	THEORY	PRACTICAL	STRUCTURED VIVA
1 hour	2 ½ hours	6 hours	10 minutes	2 ½ hours	6 hours	10 minutes
2 SEQ	05 SEQs	-	-	05 SEQs	-	-
20%	50%	20%	10%	70%	20%	10%

PH 203 : PATHOPHYSIOLOGY AND PHARMACOLOGY

FIRST ATTEMPT				SECOND AND SUBSEQUENT ATTEMPTS	
INCOURSE ASSESSMENT		END COURSE ASSESSMENT		END COURSE ASSESSMENT	
THEORY		THEORY		THEORY	
2 hour		3 hours		3 hours	
02 SEQs	20 MCQs	03 SEQs	30 MCQs	03 SEQs	30 MCQs
60%	40%	60%	40%	60%	40%
20%		80%		100%	

PH 204 : PHARMACEUTICAL MICROBIOLOGY				
FIRST ATTEMPT			SECOND AND SUBSEQUENT ATTEMPTS	
INCOURSE ASSESSMENT	END COURSE ASSESSMENT		END COURSE ASSESSMENT	
THEORY	THEORY	OSPE	THEORY	OSPE
1 hour	2 hours	1 hour	2 hours	1 hour
02 SEQs	04 SEQs	10 OSPE	04 SEQs	10 OSPE
20 %	60%	20%	80%	20%

PH 205 : PHARMACOGNOSY				
FIRST ATTEMPT			SECOND AND SUBSEQUENT ATTEMPTS	
INCOURSE ASSESSMENT	END COURSE ASSESSMENT		END COURSE ASSESSMENT	
THEORY	THEORY	PRACTICAL	THEORY	PRACTICAL
1 hour	3 hours	3 hours	3 hours	3 hours
2 SEQs	06 SEQs	-	06 SEQs	-
20%	60%	20%	80%	20%

PH 206 : PHARMACY LAW AND ETHICS				
FIRST ATTEMPT			SECOND AND SUBSEQUENT ATTEMPTS	
INCOURSE ASSESSMENT	END COURSE ASSESSMENT		END COURSE ASSESSMENT	
THEORY	THEORY	STRUCTURED VIVA	THEORY	STRUCTURED VIVA
1 hour	2 hours		2 hours	10 minutes
02 SEQs	SEQ Law - 02 SEQs Ethics - 01 SEQ	MCQ Law - 10 MCQs	SEQ Law - 02 SEQs Ethics - 01 SEQ	MCQ Law - 10 MCQs
	80%	20%	80%	20%
20%	70%		90%	10%

THIRD YEAR

PH 301 : PHARMACY PRACTICE				
FIRST ATTEMPT			SECOND AND SUBSEQUENT ATTEMPTS	
INCOURSE ASSESSMENT	END COURSE ASSESSMENT		END COURSE ASSESSMENT	
THEORY	THEORY		THEORY	
1 hour	2 hours		2 hours	
02 SEQs	3 SEQs	10 MCQs	3 SEQs	10 MCQs
	80%	20%	80%	20%
20%	80%		100%	

PH 302 : PHARMACEUTICAL TECHNOLOGY						
FIRST ATTEMPT				SECOND AND SUBSEQUENT ATTEMPTS		
INCOURSE ASSESSMENT	END COURSE ASSESSMENT			END COURSE ASSESSMENT		
THEORY	THEORY	PRACTICAL	STRUCTURED VIVA	THEORY	PRACTICAL	STRUCTURED VIVA
1 hour	2 ½ hours	2 hours	10 minutes	2 ½ hours	2 hours	10 minutes
2 SEQs	3 SEQs	-		3 SEQs	-	-
	20 MCQs			20 MCQs		
	60%			60%	40%	
20%	50%	20%	10%	70%	20%	10%

PH 303 : HOSPITAL AND COMMUNITY PHARMACY					
FIRST ATTEMPT				SECOND AND SUBSEQUENT ATTEMPTS	
INCOURSE ASSESSMENT	END COURSE ASSESSMENT			END COURSE ASSESSMENT	
THEORY	THEORY	PORTFOLIO	STRUCTURED VIVA	THEORY	STRUCTURED VIVA
1 hour	2 hours	-	10 minutes (on portfolio)	2 hours	10 minutes (on general)
02 SEQs	03 SEQs	-	-	03 SEQs	-
	10 MCQs			10 MCQs	
	80%			80%	20%
20%	60%	10%	10%	80%	20%

PH 304 : PHARMACOLOGY AND TOXICOLOGY

FIRST ATTEMPT					SECOND AND SUBSEQUENT ATTEMPTS		
IN-COURSE ASSESSMENT		END COURSE ASSESSMENT			END COURSE ASSESSMENT		
THEORY		THEORY		OSPE	THEORY		OSPE
2 hours		3 hours		1 hour	3 hours		1 hour
SEQ Pharmacology 02 SEQs	MCQ Pharmacology 20 MCQs	SEQ Pharmacology 02 SEQs Toxicology 01 SEQs	MCQ Pharmacology 20 MCQs Toxicology 10 MCQs	-	SEQ Pharmacology 02 SEQs Toxicology 01 SEQs	MCQ Pharmacology 20 MCQs Toxicology 10 MCQs	-
60%	40%	60%	40%		60%	40%	
20%		70%		10%	90%		10%

PH 305 : APPLIED PHARMACOGNOSY

FIRST ATTEMPT				SECOND AND SUBSEQUENT ATTEMPTS		
IN-COURSE ASSESSMENT	END COURSE ASSESSMENT			END COURSE ASSESSMENT		
THEORY	THEORY	PRACTICAL	STRUCTURED VIVA	THEORY	PRACTICAL	STRUCTURED VIVA
1 hour	2 hours	6 hours	10 minutes	2 hours	6 hours	10 minutes
02 SEQs	04 SEQs	-	-	04 SEQs	-	-
20%	50%	20%	10%	70%	20%	10%

PH 306 : PHARMACEUTICAL MARKETING, MANAGEMENT AND ACCOUNTING

FIRST ATTEMPT				SECOND AND SUBSEQUENT ATTEMPTS	
INCOURSE ASSESSMENT	END COURSE ASSESSMENT			END COURSE ASSESSMENT	
THEORY	THEORY	INDIVIDUAL ASSIGNMENT	STRUCTURED VIVA	THEORY	STRUCTURED VIVA
1 hour	2 hours	-	10 minutes	2 hours	10 minutes
02 SEQs	04 SEQs	-	-	04 SEQs	
20%	60%	10%	10%	90%	10%

PH 307 : BIOSTATISTICS

FIRST ATTEMPT			SECOND AND SUBSEQUENT ATTEMPTS	
INCOURSE ASSESSMENT	END COURSE ASSESSMENT		END COURSE ASSESSMENT	
THEORY	THEORY	PRACTICAL	THEORY	PRACTICAL
1 hour	2 hours	2 hours	2 hours	2 hours
02 SEQs	4 SEQs	-	4 SEQs	
20%	60%	20%	80%	20%

FOURTH YEAR

PH 401 : BIOPHARMACEUTICS		
FIRST ATTEMPT		SECOND AND SUBSEQUENT ATTEMPTS
INCOURSE ASSESSMENT	END COURSE ASSESSMENT	END COURSE ASSESSMENT
THEORY	THEORY	THEORY
1 hour	2 hours	2 hours
02 SEQs	04 SEQs	04 SEQs
20%	80%	100%

PH 402 : MEDICINAL CHEMISTRY						
FIRST ATTEMPT				SECOND AND SUBSEQUENT ATTEMPTS		
INCOURSE ASSESSMENT	END COURSE ASSESSMENT			END COURSE ASSESSMENT		
THEORY	THEORY	PRACTICAL	STRUCTURED VIVA	THEORY	PRACTICAL	STRUCTURED VIVA
1 hour	3 hours	6 hours	10 minutes	3 hours	6 hours	10 minutes
2 SEQs	06 SEQs	-	-	06 SEQs	-	-
20%	50%	20%	10%	70%	20%	10%

PH 403 : CLINICAL PHARMACY					
FIRST ATTEMPT			SECOND AND SUBSEQUENT ATTEMPTS		
INCOURSE ASSESSMENT	END COURSE ASSESSMENT		END COURSE ASSESSMENT		
THEORY	THEORY	OSCE	THEORY	OSCE	
1 hour	2 ½ hours		2 ½ hours	1 hour	
02 SEQ	04 SEQs	10 MCQs	04 SEQs	10 MCQs	10 OSCE
	80%	20%			
20%	60%		80%	20%	

PH 404 : PHARMACEUTICAL BIOTECHNOLOGY				
FIRST ATTEMPT			SECOND AND SUBSEQUENT ATTEMPTS	
INCOURSE ASSESSMENT	END COURSE ASSESSMENT		END COURSE ASSESSMENT	
THEORY	THEORY	STRUCTURED VIVA	THEORY	STRUCTURED VIVA
1 hour	2 hours	10 minutes	2 hours	10 minutes
02 SEQs	4 SEQs		04 SEQs	
20%	70%	10%	90%	10%

PH 405 : PHARMACOTHERAPEUTICS

FIRST ATTEMPT				SECOND AND SUBSEQUENT ATTEMPTS	
INCOURSE ASSESSMENT		END COURSE ASSESSMENT		END COURSE ASSESSMENT	
THEORY		THEORY		THEORY	
2 hours		3 hours		3 hours	
02 SEQs	20 MCQs	03 SEQs	30 MCQs	03 SEQs	30 MCQs
60%	40%	60%	40%	60%	40%
20%		80%		100%	

PH 406 : PROJECT REPORT (ALL ATTEMPTS)

PROJECT REPORT	ORAL PRESENTATION OF PROJECT WORK	VIVA PERFORMANCE
40%	30%	30%

EXAMINATION BY-LAWS AND REGULATIONS

BACHELOR OF PHARMACY (HONOURS) DEGREE (B.PHARM. HONS)

UNIVERSITY OF SRI JAYEWARDENEPURA

BY-LAWS MADE BY THE COUNCIL OF THE UNIVERSITY OF SRI JAYEWARDENEPURA
UNDER SECTION 135 OF THE UNIVERSITIES ACT NO. 16 OF 1978

(Amendments to the existing By-Laws)

1. These By-laws may be cited as the Bachelor of Pharmacy (Honours) (B.Pharm. Hons) By-laws
2. Subject to these By-laws, a candidate may be awarded the degree of Bachelor of Pharmacy (Honours) if he/ she:
 - (a) has been admitted as an internal student of the University, and
 - (b) has been registered as a student of the University for a period not less than 4 years and
 - (c) has completed the courses of study prescribed by the By-laws, rules and regulations, to the satisfaction of the Vice Chancellor, and
 - (d) has passed each subject/course unit of the degree through evaluation at the end of each year examination, and
 - (e) has paid such fees or other dues as may be prescribed by the University, and
 - (f) has fulfilled any other conditions or requirements as may be prescribed by the University.
3. The examinations leading to the degree of Bachelor of Pharmacy (Honours) shall be
 - (i) The Bachelor of Pharmacy (Honours) - Part I Examination,
 - (ii) The Bachelor of Pharmacy (Honours) - Part II Examination,
 - (iii) The Bachelor of Pharmacy (Honours) - Part III Examination,
 - (iv) The Bachelor of Pharmacy (Honours) - Part IV Examination
4. The subjects, courses of study and syllabus for the examinations leading to the degree of B. Pharm and the number of papers, oral examinations and other forms of evaluation in each subject/ course units shall be prescribed by the regulations made by the Senate.

5. Each of the examinations prescribed by these By-laws and the regulations there under shall be conducted by a Board of Examiners constituted for the conduct of that examination.
6. A candidate shall present him/ herself for each examination leading to the Degree of Bachelor of Pharmacy (Honours) on the first occasion at which he/she is required to do so provided that it shall be within the power of the Senate to declare that he/ she is eligible to appear for that examination on a subsequent occasion.
7. A candidate may be granted permission to postpone a scheduled attempt on the basis of a valid* excuse submitted and accepted by the Senate and the attempt at which he/ she sits the examination after the postponement shall be regarded as the attempt for which he/ she has submitted a valid excuse.

* Valid excuses for examinations

- (i) Medical certificate acceptable to the Senate. The medical certificate should be submitted within 14 days of conclusion of the exam/part of the exam.
 - (ii) Death of immediate family member (parent/brother/sister/if married spouse, children) one week prior to the examination or during the examination (The death certificate should be submitted for approval of the Senate).
8. In the absence of an accepted excuse, failure to sit any due or scheduled examination shall be considered as an unsuccessful attempt at that examination.
 9. The candidate should have a minimum of % attendance at tutorials and practical or a particular course unit and satisfactory completion (80%) of in work experience relevant to the period scheduled by the department for a particular course unit to be eligible to sit for that course unit.
 10.
 - 10.1. The candidate should be eligible to sit all course units of an examination before the candidate is issued admission for that particular examination.
 - 10.2. If a candidate has obtained a grade less than C in a particular course unit he/she shall be permitted to sit that particular course unit in a subsequent examination.

11. If, absence for tutorials and practical is covered by a valid excuse acceptable to the Senate, the candidate will be eligible to sit for the next scheduled examination only after completion of 80% attendance for tutorials, practical and in work experience. If this scheduled examination is the candidate's first attempt and the valid excuse is acceptable, the candidate will be eligible for a grade above C.
12. If the candidate fails to sit for a course unit without a valid excuse acceptable to the Senate, the candidate will receive zero marks for that course unit and will fail the whole examination. A candidate should take the entire examination next time as his/her second/subsequent attempt. The candidate would not be eligible for grade above C.
13. In the event a candidate fails to sit some of the course units/subjects or some subcomponents of a course unit/subject due to a valid excuse the candidate should sit the particular course unit/subject at a subsequent examination. The maximum grade that the candidate could obtain for the particular course units at the next scheduled exam will be C.

Or

the candidate could request the whole examination to be considered null and void and take all the components/ subjects at the next scheduled examination, which would be considered as his/her first attempt. The candidate would therefore be eligible for a grade above C.

14. When a candidate sits an examination in the second or subsequent attempt, in-course assessment marks will not be taken into consideration.
15. A candidate, who is absent with a valid excuse acceptable to the Senate to cover the absence for an in-course assessment of any course unit/s, he/she will be given the opportunity to sit that particular course unit/s in the respective in-course assessment with the next batch of students if possible or to sit for another in-course assessment, the format of which would be decided by the Coordinator of the respective courses.
16. If a candidate is unable to sit for one/more course unit/s of an in-course assessment without a valid excuse acceptable to the Senate to cover the absence, he/ she will be given a zero mark for the course unit/s in the incourse assessment.
17. A candidate who obtains a grade less than C shall have to repeat the relevant subject/course unit in the subsequent examination in order to improve the grade. However only 3 attempts shall be permitted to do so within the maximum number of years permitted to complete the degree course.

18. English Language Competency Test (ELCT)

- 18.1 Passing the English Language Competency Test (ELCT) is compulsory to obtain the B. Pharm degree certificate.
- 18.2 If a candidate fails to achieve the pass mark at the English Language Competency Test (ELCT) conducted at the end of the B. Pharm Part I Examination, he/ she is required to pass the ELCT at a subsequently scheduled ELCT Examination before the award of the B. Pharm degree.

19.

- 19.1 A candidate who has been successful at all examinations, for Bachelor of Pharmacy (Honours) Degree may be awarded First Class Honours or Second Class Honours (Upper Division) or Second Class Honours (Lower Division) or a Pass, as the case may be.
- 19.2 A candidate shall not be eligible for honours unless he/she has taken the examination on the earliest occasion on which he/she is qualified to do so, provided that it shall be within the power of the Senate to declare, for some specified reason, that he/she is eligible for honours at a subsequent attempt.

20. Evaluation of Course Marks

20.1 **Course Units**

A course unit may consist of one or more components such as lectures, practical, hospital ward based training, community and hospital pharmacy based training, industrial visits and research work.

20.2 **Credit Values of Course Units**

Each course unit has a defined credit value ranging from 2.0 to 8.0. One credit consists of approximately 15 lecture hours or 30-45 laboratory hours or 45 hours of field studies/ clinical work.

20.3 **Method of Assessment**

- (i) Candidate's performances at each course unit examination is assessed and graded by one or more of theory examinations, laboratory practical and clinical examinations, oral examinations, portfolio, assignment, seminar presentation and project report evaluation or any other assessment specified by the University.
- (ii) When a candidate sits for an examination in the second or subsequent attempt, his/ her in-course assessment, assignments and portfolio marks will not be taken into consideration.

- (iii) The course shall be of 3 terms duration and in-course assessments will be held at the end of the second term.
- (iv) The end-course assessment will be held at the end of the 3rd term, and a repeat examination will be held not less than 6 weeks after the publication of the results of the previous examination.

20.4 **Grading Scale**

A candidate's performance is graded on a 12 point scale, which ranges from A+ (Outstanding) to E (Bad). The grading scale is given below. The letter

“M” is given for medical and “Ab” is given for absence.

20.5 **Passing Subject/ Course Unit Examination**

Grade	Range Marks	Grade Point	Implication
A+	80 - 100	4.0	Outstanding
A	75 - 79	4.0	Excellent
A-	70 - 74	3.7	Very Good - Excellent
B+	65 - 69	3.3	Very Good
B	60 - 64	3.0	Good
B-	57 - 59	2.7	Fair - good
C+	54 - 56	2.3	Fair
C	50 - 53	2.0	Satisfactory
C-	45 - 49	1.7	Weak - Satisfactory
D+	40 - 44	1.3	Weak
D	30 - 39	1.0	Bad - Weak
E	00 - 29	0.0	Bad

Ab - 0.0 Absent without valid reason M - 0.0 Absent on medical reason

A candidate who scores a grade C or above is considered to have passed the relevant course unit.

20.6 **Grade Point Average (GPA)**

Grades obtained by each candidate at course unit examinations are evaluated according to the following equation in order to calculate his/her Grade Point Average. This value will be rounded to a single decimal point.

$$\text{GPA} = \frac{\sum \text{Grade point scored for the course unit} \times \text{Credit value of the course unit}}{\text{Cumulative credit value of all course units followed}}$$

21. **Passing Examination**

- 21.1 A candidate who obtains minimum of 45% in theory and an overall average of 50% or above in a subject/course unit shall be considered to have passed in that course unit.
- 21.2 A candidate who obtains less than 45% in theory and an overall average of 50% or above in a course unit shall be given a grade of C-.
- 21.3 A candidate shall be deemed to have passed in a subject/course unit if he/she obtained an overall grade of C or above.
- 21.4 A candidate shall be deemed to have not completed a course unit and who is absent or attendance less than 80% for tutorials, practical and in work experience, shall be given a symbol of "ab" (absent without valid reason) or "M" (absent on medical reason)
- 21.5 A candidate who obtains a grade less than C shall have to repeat the relevant course unit/subject in the subsequent examination in order to improve the grade.
- 21.6 A repeat examination will be held after 6 weeks of releasing the results of only end of year examinations.
- 21.7 A candidate who repeats course units/ subject of an examination shall not be eligible to obtain more than 50% (minimum mark given for a 'C' grade) for each of the course units which he/ she repeats irrespective of the actual marks obtained.
- 21.8 A candidate who obtains less than 25% in any one course unit/subject of an examination will be considered as having failed the whole examination and will have to re-sit the whole examination.

22. Completion of Degree (B.Pharm. Hons Degree)

22.1 Requirements for B.Pharm. Hons Graduation

In order to graduate with a B.Pharm. Hons degree a candidate shall have:

- (i) Completed course units of 124 credits.
- (ii) Earned a minimum overall GPA of 2.0 for the entire degree program of 4 years duration and no grade below C.
- (iii) Completed the in work experience
- (iv) Passed the English Language Competency Test (ELCT) and fulfilled all the requirements in 23.1 (i), 23.1 (ii), 23.1 (iii) and 23.1 (iv) above within a maximum of 8 academic years from the first academic year of registration. This includes the period of extension permitted with valid reasons.

22.2 **Effective Date of the Degree**

The effective date of the degree shall be the date following the last date of the stipulated examination. To be eligible for this effective date, a candidate shall fulfill the requirements given in section 23.1.

23. Award of Classes

23.1 **First class Honours**

A candidate shall meet all the following requirements in order to be awarded a degree with a First Class Honours.

- (i) The candidate shall have earned an overall GPA of 3.7 or above in the entire degree program.
- (ii) The candidate shall have earned grades of A- (A minus) or above in at least half the course units in the degree program.
- (iii) The candidate shall have earned no grades below C during the entire degree program.
- (iv) The candidate shall have fulfilled these requirements within four academic years from the first academic year of registration other than due to approved valid reason.

23.2 **Second Class (Upper Division) Honours**

A candidate shall meet all the following requirements in order to be awarded a degree with a Second Class (Upper Division) Honours.

- (i) The candidate shall have earned an overall GPA of 3.3 or above in the entire degree program.
- (ii) The candidate shall have earned grades of B+ or above in at least half the course units in the entire degree program.
- (iii) The candidate shall have earned no more than two grades below C during the entire degree program.
- (v) The candidate shall have fulfilled these requirements within four academic years from the first academic year of registration other than due to an approved valid reason.

23.3. **Second Class (Lower Division) Honours**

A candidate shall meet all the following requirements in order to be awarded a degree with a Second Class (Lower Division) Honours.

- (i) The candidate shall have earned an overall GPA of 3.0 or above in the entire degree program.
- (ii) The candidate shall have earned grades of B or above in at least half the course units in the entire degree program
- (iii) The candidate shall have earned no more than three grades below C during the entire degree program.
- (iv) The candidate shall have fulfilled these requirements within four academic years from the first academic year of registration other than due to an approved valid reason.

24. **Examination Format**

24.1. **Assessment of Individual Course Units**

- (i) The course unit coordinators will identify the appropriate content for assessment in each course unit.
- (ii) Submission dates for all work to be assessed shall be fixed by the course unit coordinator and notified to candidates at the start of the term.
- (iii) Candidates who do not have 80% attendance for laboratory classes, for tutorial classes/ seminars, or in-work experience will not be eligible to sit the examination.
- (iv) The marks allocated for different components of the course unit assessment will be proportional to the learning/teaching activities carried out for each course unit.

24.2. **Bachelor of Pharmacy (Honours) Board of Examiners**

The board of examiners shall oversee the assessment of each unit, and evaluate the candidate's progression at the end of each academic year and make recommendations to the Faculty.

25. **Effective Batch**

These By-laws shall be effective for 2016/2017 batch and onward.

Lateral entry to the Bachelor of Pharmacy (Honours) Degree Programme

University of Sri Jayewardenepura

Eligibility criteria for lateral entry to the Bachelor of Pharmacy (Honours) Degree Programme

- Passed in Biology (Zoology and Botany), Physics and Credit in Chemistry for GCE (A/L) in one setting
- Minimum 3 year service in state sector* at the time of closure of application
- Below 40 years at the time of closure of application (Upper limit of age can be decided by Senate and Council of the respective University under exceptional circumstances)
- At least a Pass (S) in English for GCE (O/L) Examination
- Registration in the Ceylon Medical College Council
- Selection is based on aptitude test and interview
- Appropriate fitness for the selected field of study

* Admission of candidates from University system - Pharmacist of the University Health Center and in the Departments of Faculties of Medical and Allied Health Sciences (As long as it is within the percentage allocated for lateral entry students and the candidate has approval from the University to follow the course).

In addition the following should be noted.

- Ratio of lateral entry student to direct entry student is 1:5
- Minimum number of academic years in the University is 3

Registered pharmacists employed in the Ministry of Health who have fulfilled above eligibility criteria to sit the selection examination and passed the selection examination are eligible to enter the second year of the Bachelor of Pharmacy (Honours) Degree Programme. They are exempted from the first year of the course of study in lieu of the Diploma in Pharmacy/ Certificate of Proficiency in Pharmacy which they have already obtained. The above prescribed Examination By-Laws and Regulations for Bachelor of Pharmacy (Honours) Degree Programme, University of Sri Jayewardenepura under Section 135 of the Universities Act No. 16 of 1978 are applicable to the lateral entrants except where the below regulations are pertinent;

1. The lateral entrants,

- 1.1 are exempted from the first year of the course of study and the B.Pharm. Hons Part 1 Examination, and are eligible to enter the second year of the degree programme. However, they should successfully complete the 'first

year bridging course for lateral entry students' before being eligible to sit the B.Pharm. Hons Part IV examination.

- 1.2 may be awarded the degree of Bachelor of Pharmacy (Honours) if he/she has been registered as a student of the University for a period not less than 3 years.

2. GPA for lateral entry students is calculated according to the same equation considering only the course units from the second year onwards (excluding the course units of the first year).

3. In order to graduate with a Bachelor of Pharmacy (Honours) degree a candidate of lateral entry shall have:
 - (i) Completed course units of 94 credits
 - (ii) Earned a minimum overall GPA of 2.0 for the entire degree program of 3 years duration and no grade below C.
 - (iii) Passed the English Language Competency Test (ELCT)and,
fulfilled all the requirements in 3(i), 3(ii), and 3(iii) above within a maximum of 6 academic years from the registration. This includes the period of exception permitted with valid reasons.



B.SC. (HONOURS) IN MEDICAL LABORATORY SCIENCES

1. Introduction

Bachelor of Science (Honours) in Medical Laboratory Sciences Degree Program commenced in April 2007. The Goal of the Program is to produce Medical Laboratory Scientists who are equipped with the necessary knowledge, skills and attitudes to provide laboratory services to any part of the World. The program aims to produce Medical Laboratory Professionals who will provide quality services, foster education on Medical Laboratory Sciences, and promote research in relevant fields, both nationally as well as internationally.

2. Overview of the Curriculum

The program was established after finalizing the curriculum with inputs from University of Portsmouth, United Kingdom and subsequent approval from University Grants Commission equalized with SLQF Level 6. The Medical Laboratory Sciences Degree Program is a 4 year (120 credit) honours degree program and offers the B.Sc. (Honours) in Medical Laboratory Sciences Degree for the candidates who complete the degree within the stipulated time period. The programme is accredited by the CMCC (Ceylon Medical College Council)

Graduate Profile

At the conclusion of the undergraduate B.Sc. Medical Laboratory Sciences degree program of the Faculty of Medical Sciences of the University of Sri Jayewardenepura, the Medical Laboratory Science graduate should:

1. be able to provide quality and reliable medical laboratory test results from various scientific disciplines by performing routine and specialized procedures proficiently to assist in the diagnosis, treatment and prevention of human diseases.
2. be aware to provide the highest quality laboratory services in the public and private medical laboratory sector.
3. have knowledge on evaluation of clinical laboratory analyses and performing bench-level teaching via demonstrations of methods and explanation of theories to all required personnel.
4. be able to evaluate the validity of the laboratory test results, confirm abnormal results, and assimilate and relate data generated by different medical laboratories while making decisions regarding possible discrepancies in the test results.
5. be aware on utilization of quality control methods and standards in maintaining accuracy and precision of the test results and to recognize

problems causing results of quality control and quality assurance measures.

6. be competent to operate diagnostic and monitoring equipments used in laboratory medicine and to possess advanced skills and to perform preventative maintenance of equipments and instruments.
7. be able to bring new knowledge into the medical laboratory system and to evaluate new methods and procedures to accept changing trends in the health profession.
8. be capable to follow conventional safety measures in the performance of his/her laboratory responsibilities in order to maintain a safe working environment for himself/herself and other laboratory personnel.
9. be able to demonstrate advanced skills in leadership, communication, teaching, research, self-directed lifelong learning and management.
10. be able to exhibit compassion and respect for the patients and provide professional service with respecting individual right, equity, equality and empathy.
11. be able to develop appropriate personality, attitude and to communicate and exhibit professional conduct through interpersonal skills with laboratory personnel, other healthcare professionals and the public globally to function effectively as a member of the health care system.
12. be aware of rights of the patient, the legal implications of interacting with patients and relatives, and other professionals and society in general.

Programme Learning Outcomes

1. To acquire the advanced technology base knowledge, skills and critical thinking in the field of Medical Laboratory Sciences.
2. To provide Information related to diagnose diseases by performing accurate laboratory diagnostic procedures.
3. To disseminate the knowledge on clinical laboratory analyses among the health care workers, community and industry.
4. To develop attitudes, ethics and professionalism nationally and internationally.
5. To promote the health research leading to innovation.
6. To pursue continues professional education.

ACADEMIC PROGRAMME

Year 1

During the first year, students will gain knowledge in basic sciences, while developing skills in basic laboratory procedures and handling of laboratory equipment. In the latter part of the first year. Students will be introduced to clinical subjects.

YEAR - 01			
Subject Code	Subject	Total Hours	Credits
MLS 101	Laboratory Practice	165	8.0
102	Chemistry and Biochemistry	107	5.0
103	Human Biology	143	7.0
104	Parasitology and Immunology	128	6.0
105	Basic Haematology and General Pathology	80	4.0
Total		623	30.0

Year 2

In the 2nd year, students will mainly concentrate on clinical subjects. They will also gain more knowledge in handling advance instruments which will be used during the laboratory sessions.

YEAR - 02			
Subject Code	Subject	Total Hours	Credits
206	Haematology	152	10.0
207	Microbiology	210	9.0
208	Anatomical Pathology	138	6.0
209	Clinical Biochemistry	140	5.0
Total		640	30.0

Year 3

The research project is the main emphasis in the 3rd year. Before the students embark on their projects, they will learn research methodologies, basic statistics and will also have an opportunity to conduct a literature survey. This research will be in one of the following streams: Microbiology, Parasitology, Biochemistry, Haematology and Pathology.

YEAR - 03			
Subject Code	Subject	Total Hours	Credits
310	Molecular Biology	120	6.5
311	Advanced Analytical Techniques	90	5.5
312	Basic Community Medicine	73	5.0
313	Managerial Skills	30	3.0
314	Research Project	Extend throughout the 3 rd year	10.0
Total		176	30.0

Year 4

During the 4th year students will be allocated to hospitals and Special units. In the first two terms of the 4th year, students will work at Sri Jayewardenepura General Hospital (SJGH) and Colombo South Teaching Hospital (CSTH) where they will gain an insight into the clinical relevance of the subject matter that they have learnt. In these hospitals they will work according to a day and night roster in the laboratories of Microbiology, Biochemistry, Histopathology, Hematology and Out Patient's Department. In the 3rd term they will also gain the knowledge on advanced laboratory procedures in five main disciplines at special units.

Students who successfully complete the 4th year will be awarded the Bachelor of Science Honours in Medical Laboratory Sciences Degree.

YEAR - 04				
Subject Code	Subject		Duration	Credits
MLS 415	In Course Work Experience (Term 10,11 and 12)	CSTH and SJGH	900 Hours	30.0
		Training in Special Laboratories	450 Hours	
Total			1350 Hours	30.0

3. Assessments of B. Sc. Honours Medical Laboratory Sciences Degree Programme

Subjects will be assessed by In- course and Year end examinations (described in details in Examination structure). The methods which are used for the assessments include structured essay questions (SEQ), multiple choice questions (MCQ), practical based assessments (wet practical and OSPE) and viva voce examinations.



EXAMINATION STRUCTURE

Each subject will be assessed by In Course Assessment and Year End Examination. Assessment tools include Structured Essay Questions (SEQ), Multiple Choice Questions (MCQ), Practical Based Assessment (wet practical and OSPE) and Viva examinations.

The general assessment scheme for each examination is given in the following table.

No marks would be carried from continues assessment for the repeat examination.

First Year

Structure and allocated marks for the year end examination

In-Course Assessments (ICA) - Year 01					
Subject	2 nd Term (ICA 1)		3 rd Term (ICA 2)		Marks Allocated
	Assessment Tool	Duration	Assessment Tool	Duration	
Laboratory Practice	SEQ - 02	01 hour	-	-	20%
	Practical	01 hour			10%
Chemistry and Biochemistry	SEQ - 02	1 ½ hours	-	-	20 %
	MCQ - 15				
	Practical (Chemistry)	03 hour			10 %
Human Biology	SEQ - 02	1 ½ hours	-	-	30%
	MCQ - 15				
Parasitology and Immunology	-	-	Practical	03 hours	20%
Basic Haematology and General Pathology	-	-	Practical (Haematology)	03 hours	15%

First Year-End Examination

Structure and allocated marks for the year end examination.

Year End Examination - Year 01			
Subject	Assessment Tool	Duration	Marks Allocated
Laboratory Practice	SEQ - 06	03 hours	60%
	OSPE - 15	30 minutes	10%
Chemistry and Biochemistry	SEQ - 06	03 hours	60%
	Practical	03 hours	10%
Human Biology	SEQ - 04	02 hours	40%
	MCQ - 30	01 hour	20%
	OSPE - 20	40 minutes	10%
Parasitology and Immunology	SEQ - 06	03 hours	70%
	OSPE - 20	40 minutes	10 %
Basic Haematology and General Pathology	SEQ - 06	03 hours	50%
	OSPE - 20	40 minutes	25%
	Viva (Haematology)	10 minutes	10%

Second Year

Structure and allocated marks for the In Course Assessments

In-Course Assessments (ICA) - Year 02								
Subject	4 th Term (ICA 3)			5 th Term (ICA 4)			6 th Term (ICA 5)	
	Assessment Tool	Time Duration	Marks Allocated	Assessment Tool	Time Duration	Marks Allocated	Assessment Tool	Marks Allocated
Haematology	OSPE 15	30 min	10 %	Practical	-	15%	Practical	10%
Microbiology	Practical	06 hrs	20%	OSPE - 10	20 min	10%	-	-
Anatomical Pathology	-	-	-	Practical (Histopathology)	-	10%	Practical (Cytology)	10%
Clinical Biochemistry	-	-	-	SEQ 02	01 hrs	-	-	-
				MCQ 15	30 min			

* Note: Time duration for the practical will vary with the given practical at particular exam. Therefore, in some practical examinations time duration is not specified.

Second Year-End Examination

Structure and allocated marks for the year end examination.

Year End Examination - Year 02			
Subject	Assessment Tool	Time Duration	Marks Allocated
Haematology	SEQ 06	03 hours	40%
	OSPE 15	30 minutes	20%
	Viva	10 minutes	05%
Microbiology	SEQ 06	03 hours	50%
	Practical	06 hours	20%
Anatomical Pathology	SEQ 06	03 hours	60%
	OSPE 20	40 minutes	20%
Clinical Biochemistry	SEQ 06	03 hours	60%
	OSPE 20	40 minutes	20%

Third Year

Structure and allocated marks for the In Course Assessment

Subject	8 th Term (ICA 6)		
	Assessment Tool	Time Duration	Marks Allocated
Molecular Biology	SEQ 02	01 hour	30%
	MCQ 15	30 minutes	
Advanced Analytical Techniques	Assignment		30%
	Presentation		
Managerial Skills	Assignments		20%

Third Year-End Examination

Structure and allocated marks for the year end examination.

Subject	Third Year End Examination		
	Assessment Tool	Time Duration	Marks Allocated
Molecular Biology	SEQ 04	02 hours	60%
	OSPE 15	30 minutes	10%
Advanced Analytical Techniques	SEQ 06	03 hours	70%
Basic Community Medicine	SEQ 06	03 hours	100%
Managerial Skills	SEQ 04	02 hours	70%
Research Project	Dissertation		60%
	Presentation		20%
	Viva		20%

Fourth Year

Structure and allocated marks for the examinations of the 4th year

Disciplines	In Course Work Experience (10 th , 11 th and 12 th Terms)		
	Assessment Tool	Marks Allocated	Total
Haematology	Practical	40%	90% From Each Discipline as Depicted + 10 % From Portfolio Assessment
	OSPE	30%	
	Viva	20%	
Clinical Biochemistry	Practical	40%	
	OSPE	30%	
	Viva	20%	
Anatomical Pathology	Practical	40%	
	OSPE	30%	
	Viva	20%	
Microbiology	OSPE	70%	
	Viva	20%	
Parasitology	Practical	40%	
	OSPE	30%	
	Viva	20%	

EXAMINATION BY-LAWS AND REGULATIONS

BACHELOR OF SCIENCE HONOURS IN MEDICAL LABORATORY SCIENCES

DEGREE PROGRAMME

UNIVERSITY OF SRI JAYEWARDENEPURA

BY- LAWS MADE BY THE COUNCIL OF THE UNIVERSITY OF SRI JAYEWARDENEPURA
UNDER SECTION 135 OF THE UNIVERSITIES ACT NO. 16 OF 1978

(Amendments to the existing By-Laws)

1. These by-laws may be cited as the Bachelor of Science Honours in Medical Laboratory Sciences Degree by-laws.
2. Subject to these by-laws a candidate may be awarded the Degree of Bachelor of Science Honours in Medical Laboratory Sciences if he/she:
 - (a) has been admitted as an internal student of the University and
 - (b) has been registered as a student of the University for a period not less than 4 years and
 - (c) has completed the courses of study prescribed by the By-Laws, rules and regulations, to the satisfaction of the Vice-Chancellor, and
 - (d) has passed each subject/subject of the degree through evaluation at the end of each examination and
 - (e) has paid such fees or other dues as may be prescribed by the University and
 - (f) has fulfilled any other conditions or requirements as may be prescribed by the University.
3. The examinations leading to the Degree of Bachelor of Science Honours in Medical Laboratory sciences shall be:
Refer the “Examination Structure”
4. The subjects, courses of study and syllabi for the examinations leading to the Degree of B.Sc. Honours in Medical Laboratory Sciences and the number of papers, oral examinations and other forms of evaluation in each subject shall be prescribed by the regulations made by the Senate.
5. Each of the examinations prescribed by these by-laws and the regulations there under shall be conducted by a Board of Examiners constituted for the conduct of that examination.

6. A candidate shall present him/herself for each examination leading to the B.Sc. Honours in Medical Laboratory Sciences of the first occasion at which he/she is required to do so provided that it shall be within the power of the Senate to declare that he/she is eligible to appear for that examination on a subsequent occasion.
7. A candidate may be granted permission to postpone a scheduled attempt on the basis of a valid excuse* submitted and accepted by the Senate and the attempt at which he/she sits the examination after the postponement shall be regarded as the attempt for which he/she has submitted a valid excuse.
 - * Valid excuses for examinations
 - a. Medical certificate acceptable to the Senate. The medical certificate should be submitted within 14 days of conclusion of the exam/part of the exam.
 - b. Death of immediate family member (parent/ brother/sister/if married spouse, children) one week prior to the examination or during the examination (the death certificate should be submitted for approval of the Senate).
8. In the absence of an accepted excuse, failure to sit any due or scheduled examination shall be considered as an unsuccessful attempt at that examination.
9. The candidate should have a minimum of 80% attendance at tutorials, practical and satisfactory completion of In-course work experience in laboratory placement for a particular subject to be eligible to sit for that subject.
10.
 - 10.1 The candidate should be eligible to sit all subjects of an examination before the candidate is issued admission for that particular examination.
 - 10.2 If a candidate has obtained a grade less than C in a particular subject he/she shall be permitted to sit for that particular subject in a subsequent examination.
11. If absence for tutorials, practical and clinical is covered by a valid excuse acceptable to the Senate, the candidate will be eligible to sit for the next scheduled examination only after completion of 80% attendance for tutorials, practical, and clinical. If this scheduled examination is the candidate's first

attempt and the valid excuse is acceptable, the candidate will be eligible for a grade above C.

12. If the candidate fails to sit for a subject without a valid excuse acceptable to the Senate, the candidate will receive zero marks for that subject and will fail the whole examination. A candidate should take the entire examination next time as his/her second/subsequent attempt. The candidate would not be eligible for a grade above C.
13. In the event a candidate fails to sit some of the subjects or some subcomponents of a subject due to a valid excuse the candidate should sit the particular subject at a subsequent examination. The maximum grade that the candidate could obtain for the particular subjects at the next scheduled exam will be C.

Or

the candidate could request the whole examination to be considered null and void and take all the components/subjects at the next scheduled examination, which would be considered as his/her first attempt. The candidate would therefore be eligible for a grade above C.

14. When a candidate sits an examination in the second or subsequent attempt, in-course assessment marks will not be taken into consideration.
15. A candidate, who is absent with a valid excuse acceptable to the Senate to cover the absence for an in-course assessment of any subject/s, he/she will be given the opportunity to sit that particular subject/s in the respective in-course assessment with the next batch of students if possible or to sit for another in-course assessment, the format of which would be decided by the Coordinator of the respective disciplines.
16. If a candidate is unable to sit for one/more subject/s of an in-course assessment without a valid excuse acceptable to the Senate to cover the absence, he/she will be given a zero mark for the subject/s in the in-course assessment.
17. A candidate who obtains a grade less than C shall have to repeat the relevant subject in the subsequent examination in order to improve the grade. However, only 3 attempts shall be permitted to do so within the maximum number of years permitted to complete the degree course.

18. English Language Competency Test (ELCT)

- 18.1 Passing the English Language Competency Test (ELCT) is compulsory to obtain the B.Sc. Honours in Medical Laboratory Sciences degree certificate.
- 18.2 If a candidate fails to achieve the pass mark at the English Language Competency Test (ELCT) conducted at the end of the Year 1 of B.Sc. Honours in Medical Laboratory Sciences Degree, he/she is required to pass the ELCT at a subsequently scheduled ELCT Examination before the award of the B.Sc. Honours in Medical Laboratory Sciences Degree.

19.

- 19.1 A candidate who has been successful at all examinations for Bachelor of Science Honours in Medical Laboratory Sciences Degree may be awarded First Class Honours or Second Class Honours (Upper Division) or Second Class Honours (Lower Division) or a Pass, as the case may be.
- 19.2 A candidate shall not be eligible for Honours unless he/she has taken the examination on the earliest occasion on which he/she is qualified to do so, provided that it shall be within the power of the Senate to declare, for some specified reason, that he/she is eligible for Honours at a subsequent attempt.

20. Evaluation of Course Marks

20.1 **Subjects**

A subject may consist of one or more components such as lectures, practical, laboratory based training, computer based, self-directed learning and research work.

20.2 **Credit Values of Subjects**

Each subject has a defined credit value ranging from 2.0 to 10.0. One credit consists of approximately 15 lecture hours or 30-45 laboratory hours or 45 hours of field studies/clinical work.

20.3 **Method of Assessment**

- (i) Candidate's performances at each subject examination is assessed and graded by one or more of theory examinations, laboratory practical examinations, oral examinations, portfolio, assignment and project report evaluation or any other assessment specified by the University.

- (ii) When a candidate sits for an examination in the second or subsequent attempt, his/her in-course assessment, assignments and portfolio marks will not be taken into consideration.
- (iii) The course shall be of 3 terms duration and in-course assessments will be held at the end of the first / second terms.
- (iv) End of year exams will be held at the end of the 3rd term, and a repeat examination will be held not less than 6 weeks after the date of releasing the results of the previous examination.

20.4 **Grading Scale**

A candidate's performance is graded on a 12 point scale, which ranges from A+ (outstanding) to E (fail). The grading scale is given below. The letter "M" is given for medical and "Ab" is given for absence.

Grade	Range Marks	Grade Point	Implication
A+	80 - 100	4.0	Outstanding
A	75 - 79	4.0	Excellent
A-	70 - 74	3.7	Very Good - Excellent
B+	65 - 69	3.3	Very Good
B	60 - 64	3.0	Good
B-	57 - 59	2.7	Fair - Good
C+	54 - 56	2.3	Fair
C	50 - 53	2.0	Satisfactory
C-	45 - 49	1.7	Weak - Satisfactory
D+	40 - 44	1.3	Weak
D	30 - 39	1.0	Bad - Weak
E	00 - 29	0.0	Bad
Ab	-	0.0	Absent without valid reason
M	-	0.0	Absent on medical reasons

20.5 **Passing Subject in an Examination**

A candidate who scores a grade C or above is considered to have passed the relevant subject.

20.6 **Grade Point Average (GPA)**

Grades obtained by each candidate at subject examinations are evaluated according to the following equation in order to calculate his/her Grade Point Average. This value will be rounded to a single decimal point.

$$\text{GPA} = \frac{\sum \text{Grade point scored for the subject} \times \text{Credit value of the course unit}}{\text{Cumulative credit value of all subjects followed}}$$

21. **Passing Examination**

- 21.1. A candidate who obtains minimum of 45% in theory and an overall average of 50% or above in a subject/s shall be considered to have passed in that subject/s.
- 21.2 A candidate who obtains less than 45% in theory with an overall average of 50% or above in a subject/s shall be given a grade of C-.
- 21.3 A candidate shall be deemed to have passed in a subject/s if he/she obtained an overall grade of C or above.
- 21.4 A candidate shall be deemed to have not completed a subject and who is absent or attendance less than 80% for tutorials and practical, shall be given a symbol of "ab" (absent without valid reason) or "M" (absent on medical reason).
- 21.5 A candidate who obtains a grade less than C shall have to repeat the relevant subject/s in the subsequent examination in order to improve the grade
- 21.6 A repeat examination will be held after 6 weeks of releasing the results of only year end examinations.
- 21.7 A candidate who repeats subjects/s of an examination shall not be eligible to obtain more than 50% (minimum mark given for a 'C' grade) for each of the subjects which he/she repeats irrespective of the actual marks obtained.

- 21.8 A candidate who obtains less than 25% in any one subject/s of an examination will be considered as having failed the whole examination and will have to re-sit the whole examination.

22. Completion of Degree (B.Sc. Honours in Medical Laboratory Sciences Degree)

22.1 Requirements for B.Sc. Honours in Medical Laboratory Sciences Graduation

In order to graduate with a B.Sc. Honours in Medical Laboratory Sciences Degree, a candidate shall have:

- (i) Completed subjects of 120 credits
- (ii) Earned a minimum overall GPA of 2.0 for the entire degree program of 4 years duration and no grade below C.
- (iii) Passed the English Language Competency Test (ELCT)

and,

fulfilled all the requirements in 24.1 (i), 24.1 (ii), and 24.1 (iii) above within a maximum of 8 academic years from the first academic year of registration. This includes the period of extension permitted with valid reasons.

22.2 Effective Date of the Degree

The effective date of the degree shall be the date following the last date of the stipulated examination. To be eligible for this effective date, a candidate shall fulfill the requirements given in section 24.1.

23. Award of Classes

23.1 First Class Honours

A candidate shall meet all the following requirements in order to be awarded a degree with a First Class Honours.

- (v) The candidate shall have earned an overall GPA of 3.7 or above in the entire degree program.
- (vi) The candidate shall have earned grades of A- (A minus) or above in at least half the subjects in the degree program.
- (vii) The candidate shall have earned no grades below C during the entire degree program.
- (viii) The candidate shall have fulfilled these requirements within four academic years from the first academic year of registration other than due to approved valid reason.

23.2 **Second Class (Upper Division) Honours**

A candidate shall meet all the following requirements in order to be awarded a degree with a Second Class (Upper Division) Honours.

- (i) The candidate shall have earned an overall GPA of 3.3 or above in the entire degree program.
- (ii) The candidate shall have earned grades of B+ or above in at least half the subjects in degree program.
- (iii) The candidate shall have earned no more than two grades below C during the entire degree program.
- (iv) The candidate shall have fulfilled these requirements within four academic years from the first academic year of registration other than due to an approved valid reason.

23.3 **Second Class (Lower Division) Honours**

A candidate shall meet all the following requirements in order to be awarded a degree with a Second Class (Lower Division) Honours.

- (v) The candidate shall have earned an overall GPA of 3.0 or above in the entire degree program.
- (vi) The candidate shall have earned grades of B or above in at least half the subjects in degree program
- (vii) The candidate shall have earned no more than three grades below C during the entire degree program.
- (viii) The candidate shall have fulfilled these requirements within four academic years from the first academic year of registration other than due to an approved valid reason.

24. **Examination Format**

24.1 **Assessment of Individual Subjects**

- (i) The subject coordinators will identify the appropriate content for assessment in each subject.
- (ii) Submission dates for all work to be assessed shall be fixed by the subject coordinator and notified to candidates at the start of the term.
- (iii) Candidates who do not have 80% attendance for tutorials/practical sessions and in course training will not be eligible to sit the examination.

- (iv) The marks allocated for different components of the subject assessment will be proportional to the learning/teaching activities carried out for each subject.

24.2 **B.Sc. Honours in Medical Laboratory Sciences Board of Examiners**

The board of examiners shall oversee the assessment of each unit, and evaluate the candidate's progression at the end of each academic year and make recommendations to the Faculty.

25. **Effective Batch**

These by-laws shall be effective for 2016/2017 intake and onwards.

**Lateral entry to the Bachelor of Science Honours in Medical Laboratory Sciences
Degree Programme
University of Sri Jayewardenepura**

Eligibility criteria for lateral entry to the Bachelor of Science Honours in Medical Laboratory Sciences Degree Programme

- Passed in Biology (Zoology and Botany), Chemistry, Physics for GCE (A/L) in one attempt.
 - Minimum 3 year service in state sector at the time of closure of application
 - Below 40 years at the time of closure of application
(Upper limit of age can be decided by Senate and Council of the respective University under exceptional circumstances)
 - At least a Pass (S) in English for GCE (O/L) Examination
 - Registration in the Ceylon Medical College Council
 - Selection is based on aptitude test and interview
 - Appropriate fitness for the selected field of study
- * Admission of candidates from University system - MLT of the University Health Center and in the Departments of Faculties of Medical and Allied Health Sciences (As long as it is within the percentage allocated for lateral entry students and the candidate has approval from the University to follow the course).

In addition the following should be noted.

- Ratio of lateral entry student to direct entry student is 1:5
- Minimum number of academic years in the University is 3

Registered medical laboratory technologists employed in the Ministry of Health who have fulfilled above eligibility criteria to sit the selection examination and passed the selection examination are eligible to enter the second year of the **Bachelor of Science Honours in Medical Laboratory Sciences** Degree Programme. They are exempted from the first year of the course of study in lieu of the Diploma in Medical Laboratory Sciences which they have already obtained.

The above prescribed Examination By-Laws and Regulations for **Bachelor of Science Honours in Medical Laboratory Sciences** Degree Programme, University of Sri Jayewardenepura under Section 135 of the Universities Act No. 16 of 1978 are applicable to the lateral entrants except where the below regulations are pertinent;

1. The lateral entrants,
 - 1.1 are exempted from the first year of the course of study and the Year 1 End Course examination, and are eligible to enter the second year of the degree programme. However, they should successfully complete the first year bridging course for lateral entry students' before being eligible to sit the fourth year end examination.
 - 1.2 may be awarded the degree of Bachelor of Science Honours in Medical Laboratory Sciences Degree if he/she has been registered as a student of the University for a period not less than 3 years.
2. GPA for lateral entry students is calculated according to the same equation considering only the subjects from the second year onwards (excluding the subjects of the first year).
3. In order to graduate with a B.Sc. Honours in Medical Laboratory Sciences Degree a candidate of lateral entry shall have:
 - (i) Completed subjects of 90 credits
 - (ii) Earned a minimum overall GPA of 2.0 for the entire degree program of 3 years duration and no grade below C.
 - (iii) Passed the English Language Competency Test (ELCT)and,
fulfilled all the requirements in 3(i), 3(ii), and 3(iii) above within a maximum of 6 academic years from the registration. This includes the period of exemption permitted with valid reasons.

