



# 2020/2021 Student Handbook



Faculty of Allied Health Sciences  
University of Ruhuna





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University of Ruhuna  
Faculty of Allied Health Sciences  
Student Handbook  
2020/2021

**Bachelor of Science Honours in Medical Laboratory Science**  
**Bachelor of Science Honours in Nursing**  
**Bachelor of Pharmacy Honours**

## **Vision of the University**

To be the prime intellectual thrust of the nation

## **Mission of the University**

To advance knowledge and skills through teaching,  
research and services to serve the society

## Table of Contents

<b>CHAPTER 1</b>	<b>1</b>
<b>University of Ruhuna</b>	<b>1</b>
1.1. Introduction and brief history of the University	1
1.2. Location of the University	2
1.3. Officers of the University	2
1.4. Organizational structure	4
1.5. Contact information of the University	5
1.5.1. Postal addresses	5
1.5.2. Telephone and fax numbers of the University main campus and Faculties	6
1.5.3. Electronic mail/web	6
1.5.4. Internal telephone numbers (Extensions) of the Wellamadama complex	7
<b>CHAPTER 2</b>	<b>8</b>
<b>Faculty of Allied Health Sciences</b>	<b>8</b>
2.1. Introduction	8
2.2. Vision and Mission of the Faculty	9
2.2.1. Vision of the Faculty	9
2.2.2. Mission of the Faculty	9
2.3. Aim of the Faculty	9
2.4. Administrative staff and contact information	9
2.5. Site map of the Faculty	10
2.6. Degree programmes	10
2.7. Graduate profiles	11
2.7.1. Graduate profile of BSc Honours in Medical Laboratory Science degree	11
2.7.2. Graduate profile of BSc Honours in Nursing degree	11
2.7.3. Graduate profile of Bachelor of Pharmacy Honours degree	12
<b>CHAPTER 3</b>	<b>13</b>
<b>Academic Regulations and Procedures</b>	<b>13</b>
3.1. Admission requirement	13
3.1.1. On the basis of G.C.E. (A/L) results	13
3.1.2. Lateral entry	13
3.2. Registration as a new student	14
3.3. Registration fees	14
3.4. Orientation programme	14
3.5. Development Programme for English	15
3.6. Continuous English Programm	15
3.7. Course structure and academic calendar	15
3.8. Credit framework policy	15

3.9. Accreditation and specifications of the degree programmes	16
3.9.1. Sri Lanka Qualification Framework	16
3.9.2. Accreditation	16
3.10. Attendance requirements	17
3.10.1. Medical certificates	17
3.11. By-law of the University and rules and regulations for students in University of Ruhuna	17
3.12. By-laws of degree programmes	17
 <b>CHAPTER 4</b>	 18
<b>Department of Medical Laboratory Science</b>	18
4.1. Introduction	18
4.2. Degree offered by the Department	18
4.3. Vision and Mission of the Department	18
4.4. Research areas of the Department	19
4.5. Academic staff of the Department	19
4.6. Course structure	20
4.6.1. Duration of the course	20
4.6.2. Medium of the instruction	20
4.6.3. Academic year	20
4.6.4. General Academic calendar	20
4.7. Course units offered by the Department for BSc Honours in Medical Laboratory Science degree	21
4.8. Course descriptions for BSc Honours in Medical Laboratory Science degree	23
4.9. By-Laws of the Bachelor of Science Honours in Medical Laboratory Science degree	33
4.10. Code of conduct at work-based training for Medical Laboratory Science students	40
 <b>CHAPTER 5</b>	 43
<b>Department of Nursing</b>	43
5.1. Introduction	43
5.2. Degree offered by the Department	43
5.3. Vision and Mission of the Department	43
5.4. Research areas of the Department	44
5.5. Academic staff of the Department	45
5.6. Course structure	45
5.6.1. Duration of the course	45
5.6.2. Medium of the instruction	45
5.6.3. Academic year	45
5.6.4. General academic calendar	46
5.7. Course units offered by the Department for Bachelor of Science Honours in Nursing degree	46
5.8. Course unit description for Bachelor of Science Honours in Nursing degree	49

5.9. By-Laws of the Bachelor of Science Honours in Nursing degree	58
5.10. Code of Conduct for students at clinical placement for Nursing students	61
<b>CHAPTER 6</b>	64
<b>Department of Pharmacy</b>	64
6.1. Introduction	64
6.2. Degree offered by the Department	64
6.3. Vision and Mission of the Department	65
6.4. Research areas of the Department	65
6.5. Academic staff of the Department	66
6.6. Course structure	66
6.6.1. Duration of the course	66
6.6.2. Medium of the instruction	66
6.6.3. Academic year	66
6.6.4. General academic calendar	67
6.7. Course units offered by the Department for Bachelor of Pharmacy Honours degree	67
6.8. Course unit description for Bachelor of Pharmacy Honours degree	69
6.9. By-laws of the Bachelor of Pharmacy Honours degree	82
6.10. Code of conduct for students at clinical or industrial training for Pharmacy students	91
<b>CHAPTER 7</b>	96
<b>Examinations</b>	96
7.1. Examinations conducted by the Faculty	96
7.2. Eligibility for examinations	96
7.2.1. Attendance requirements for examinations	96
7.2.2. Registration for examinations	97
7.3. Examination and evaluation structure of BSc Honours in Medical Laboratory Science degree subject units	97
7.4. Examination and evaluation structure of BSc Honours in Nursing degree subject units	100
7.5. Examination and evaluation structure of BPharm Honours degree course units	103
7.6. Examination criteria	106
7.6.1. Grades allocated for course units	106
7.7. Pass in a course unit	106
7.8. Awarding classes	107
7.9. Release of results	107
7.10. Verification of grades	107

<b>CHAPTER 8</b>	108
<b>Medals and Awards for Students</b>	108
8.1. Annual student awards	108
8.2. Dean's awards and Dean's list for overall performance	108
8.3. The Vice Chancellor's award and Vice Chancellor's list for overall performance	109
8.3.1. Application procedure	109
8.3.2. Eligibility requirements	109
8.3.2.1. Academic requirements	109
8.3.2.2. Other requirements	109
8.3.3. Selection criteria	110
8.3.3.1. Academic achievements	110
8.3.3.2. Sports achievements	111
8.3.3.3. Other achievements	111
8.4. Gold Medal for the student with best overall academic performance of Faculty of Allied Health Sciences (Indian High Commissioner's Annual Gold Medal)	112
<b>CHAPTER 9</b>	114
<b>Library Facilities</b>	114
9.1. Introduction	114
9.2. Staff of the Library	114
9.3. Library opening hours	115
9.4. Library collections	115
9.5. Library resource classification	115
9.6. Library catalogue	116
9.7. Library services	116
9.7.1. Ask a Librarian Service	116
9.7.2. Inter-Library Loans (ILL)	116
9.8. Library membership	117
9.9. Borrowing library resources	117
9.10. Returning library resources	117
9.11. Fines and payments	118
9.12. Library site map	118
9.13. New updates	118
<b>CHAPTER 10</b>	119
<b>Learning Resources</b>	119
10.1. The cultural center	119
10.2. English Language Teaching Department (ELTD)	119
10.3. Resource Centre for Modern Languages (RCML)	119
10.4. Management Information System - MIS	120
10.5. Learning Management System - LMS	120



<b>CHAPTER 11</b>	121
<b>Sports and Recreation</b>	121
11.1. Physical education	121
11.2. Facilities for sports	122
11.3. Sports events	122
11.4. Recreational activities	122
<b>CHAPTER 12</b>	123
<b>Student Service Facilities</b>	123
12.1. Student affairs branch at the university	123
12.2. Student counseling service	123
12.3. Mentoring services	124
12.4. Handling grievances	124
12.5. Compliant/grievances reporting system	124
12.6. Health services	125
12.7. Hostel facilities and policy	125
12.8. Bursary policy and other scholarships	125
<b>CHAPTER 13</b>	126
<b>Career Guidance Unit</b>	126
13.1. Introduction	126
13.2. Staff of Career Guidance Unit	126
<b>CHAPTER 14</b>	128
<b>Student Union and Societies</b>	128
14.1. Student union of Faculty of Allied Health Sciences	128
14.2. Student societies	128
<b>ANNEXURE</b>	132
<b>ANNEXURE 1</b>	132
Guidelines for actions to be taken for student absenteeism, unsatisfactory performance and unbecoming conduct during the clinical appointments of Department of Nursing, Faculty of Allied Health Sciences, University of Ruhuna	132
<b>ANNEXURE 2</b>	137
General rules and regulations for University students	137
<b>ANNEXURE 3</b>	139
Prohibition of ragging and other forms of violence in educational institutions	139
<b>ANNEXURE 4</b>	143
Examination rules, offences and punishments	143

## **CHAPTER 1**

### **University of Ruhuna**

#### **1.1. Introduction and brief history of the University**

University of Ruhuna was established on 1<sup>st</sup> September 1978, as Ruhuna University College by a Special Presidential Decree. Currently, University of Ruhuna constitutes ten faculties, namely Agriculture, Allied Health Sciences, Engineering, Fisheries and Marine Sciences & Technology, Graduate Studies, Humanities and Social Sciences, Management & Finance, Medicine, Science and Technology.

The central administration block of the University is located at the Wellamadama (Matara) University complex. Faculties of Humanities and Social Sciences, Fisheries and Marine Sciences & Technology, Management & Finance, Science and Graduate Studies are located at the main University premises at Wellamadama. Faculties of Agriculture and Technology are located in Kamburupitiya and Faculties of Engineering, Medicine and Allied Health Sciences are located in Galle.

The University offers Bachelor, Master and PhD degrees in their respective disciplines. In addition, Diploma and Certificate courses are conducted in various disciplines.

At the first enrolment of the University of Ruhuna for the Bachelors' degree programmes in 1978, a total of 272 students were admitted. In the year 2020, the undergraduate population of the nine faculties of University of Ruhuna was 8363 (Table 1.1).

Table 1.1 Distribution of students among the nine faculties as at 31.12. 2020.

<b>Name of the Faculty</b>	<b>No. of Students</b>
Agriculture	812
Engineering	971
Fisheries and Marine Sciences & Technology	298
Humanities and Social Sciences	1632
Management and Finance	1379
Medicine	1066
Science	1186
Allied Health Sciences	459
Technology	560
Total undergraduate student population	<b>8363</b>

## 1.2. Location of the University

University of Ruhuna main campus is located 4 km away from Matara along the Colombo Hambantota (A2) main road. Matara (Sinhala: මාතර Tamil: மாத்தறை) (originally Mahathota) is a city on the Southern coast of Sri Lanka, 160 km from Colombo. Matara historically belongs to the area called Ruhuna, one of the three kingdoms in Sri Lanka. First Indians who arrived to the island according to the Mahawansa settled in the area, along the banks of Nilwala River.

Traveling from Colombo to Matara can be made either by train or buses. There are only a limited number of trains but buses are available every half an hour through the normal route or E1 expressway. The journey through normal route takes about four hours from Colombo while one and half hours through expressway.

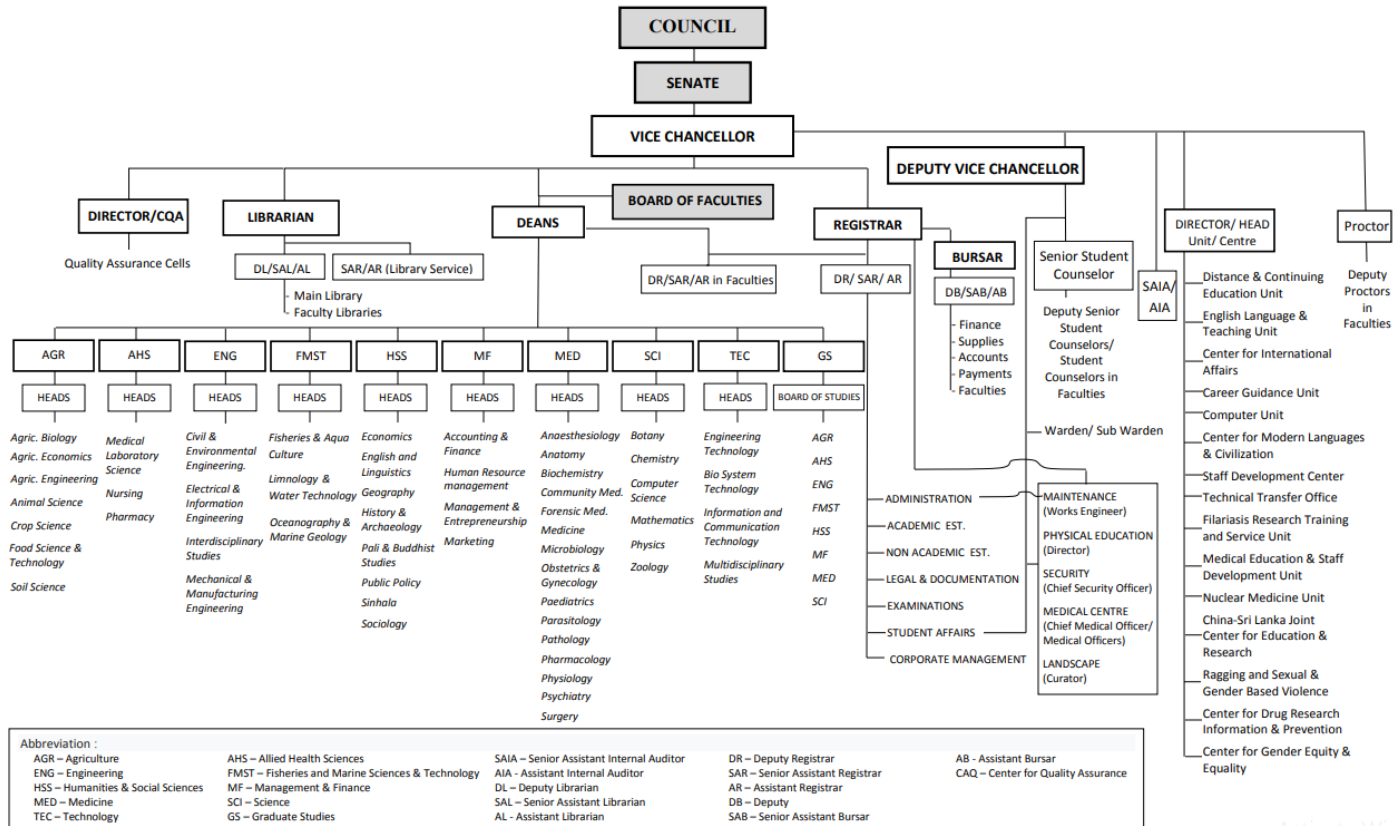
## 1.3. Officers of the University

<b><i>Chancellor</i></b>	Venerable Dr. Akuratiye Nanda Thero
<b><i>Vice Chancellor</i></b>	Senior Professor Sujeewa Amarasena <i>MBBS, MD, DCH (COL), DCH(Sydney)</i> <i>Senior Professor in Paediatrics</i>
<b><i>Deputy Vice Chancellor</i></b>	Professor E.P. Saman Chandana <i>BSc (RUH) M.Phil (RUH)</i> <i>PhD (Kyoto, Japan)</i>
<b><i>Registrar</i></b>	Mrs. P.S. Kalugama <i>BA (SJP), MA (London), MBA(RUH)</i>
<b><i>Dean, Faculty of Agriculture</i></b>	Professor S.D. Wanniarachchi <i>BSc Agric (RUH),</i> <i>MSc (Guelph, Canada) PhD (Guelph, Canada)</i>
<b><i>Dean, Faculty of Allied Health Sciences</i></b>	Prof. I. Kotapola <i>BDS (PDN), PhD (Japan)</i>
<b><i>Dean, Faculty of Engineering</i></b>	Dr. C. Ambawatte <i>MSc (Russia), PhD (Russia)</i>
<b><i>Dean, Faculty of Fisheries and Marine Sciences &amp; Technology</i></b>	Prof. K H M A Deepananda <i>B.Sc. (Hons) in Zoology (Ruhuna, SL)</i> <i>M.Sc. (Bremen, Germany)</i> <i>PhD (Kelaniya, SL)</i>

<b>Dean, Faculty of Graduate Studies</b>	Professor. D.A.L. Leelamanie <i>BSc. ( Ruhuna, Sri Lanka), MSc (Peradeniya, Sri Lanka) PhD (Tokyo, Japan)</i>
<b>Dean, Faculty of Humanities and Social Sciences</b>	Professor U. Pannilage <i>BA, M.Phil, PhD (RUH) PG Dip.(COL)</i>
<b>Dean, Faculty of Management and Finance</b>	Prof. P.A.P. Samantha <i>BBA (Ruh, SL) MBA (Col, SL), PhD (WUT, China)</i>
<b>Dean, Faculty of Medicine</b>	Professor V. Devasiri <i>MBBS (RUH), DCH (Paed-COL) MD (COL)</i>
<b>Dean, Faculty of Science</b>	Professor P.A. Jayantha <i>BSc (KLN), MSc (SJP) Ph.D. (QUT, Australia)</i>
<b>Dean, Faculty of Technology</b>	Dr. K.G.S. H. Gunawardene <i>BSc (PDN), PhD (USA)</i>
<b>Acting Librarian</b>	Mr. U.A.L. Pannila <i>B.A sp.(UoP)</i>
<b>Bursar</b>	Mr. K.A.R.S. Jayakody

#### 1.4. Organizational structure

## ORGANIZATIONAL STRUCTURE OF THE UNIVERSITY



## **1.5. Contact information of the University**

### **1.5.1. Postal addresses**

Main administration block of the University is located at Wellamadama (Matara). Faculties of Humanities and Social Sciences, Fisheries and Marine Sciences & Technology, Management & Finance, Science, Graduate Studies are in the main University premises at Wellamadama.

The postal address of the University is,

University of Ruhuna

Wellamadama

Matara

81000

Sri Lanka

Addresses of the other five faculties are as follows;

Faculty of Allied Health Sciences

University of Ruhuna

Godakanda, Galle, 80000

Sri Lanka

Faculty of Technology

University of Ruhuna

Karagoda-Uyangoda, Kamburupitiya,

81100

Sri Lanka

Faculty of Agriculture

University of Ruhuna

Mapalana, Kamburupitiya, 81100

Sri Lanka

Faculty of Engineering

University of Ruhuna

Hapugala, Galle, 80000

Sri Lanka

Faculty of Medicine

University of Ruhuna

Karapitiya, Galle, 80000

Sri Lanka

### **1.5.2. Telephone and fax numbers of the University main campus and Faculties**

	<b>Telephone</b>	<b>Fax</b>
Wellamadama Complex	+94(0)412222681-2 +94(0)412227001-4	+94(0)412222683
Faculty of Agriculture	+94(0)412292200	+94(0)412292384
Faculty of Allied Health Sciences	+94(0)912243900	+94(0)912243900
Faculty of Engineering	+94(0)912245765	+94(0)912245762
Faculty of Fisheries and Marine Sciences & Technology	+94(0)412227026	+94(0)412227026
Faculty of Graduate studies	+94(0)412222681	+94(0)412222681
Faculty of Humanities and Social Sciences	+94(0)412227010	+94(0)412227010
Faculty of Management and Finance	+94(0)412227015	+94(0)412227015
Faculty of Medicine	+94(0)912234730	+94(0)912222314
Faculty of Science	+94(0)412222701	+94(0)412222701
Faculty of Technology	+94(0)413006134	+94(0)413006134

### **1.5.3. Electronic mail/web**

The university can be reached by electronic mail through the mail domain of **ruh.ac.lk**. The email addresses of the academic staff and other officers are available in the University Web site: **<http://www.ruh.ac.lk>**

#### **1.5.4. Internal telephone numbers (Extensions) of the Wellamadama complex**

Vice Chancellor	2000
Office	2101
Deputy Vice Chancellor	2001
Office	2137
Registrar	2110
Office	2109
Dean, Faculty of Fisheries and Marine Sciences & Technology	5101
Senior Assistant Registrar	5102
Dean, Faculty of Science	4101
Assistant Registrar	4102
Dean, Faculty of Humanities and Social Sciences	3101
Assistant Registrar	3102
Dean, Faculty of Management & Finance	3901
Assistant Registrar	3902
Dean, Faculty of Graduate Studies	2147
Assistant Registrar	2160
Librarian	2210
Bursar	2150
Senior Assistant Bursar (Finance)	2108
Assistant Bursar (Finance)	2103
Assistant Bursar (Supplies)	2115
Deputy Registrar (General Administration)	2120
Deputy Registrar (Examinations)	2130
Assistant Registrar (Student Affairs)	2135
Senior Assistant Registrar (Academic Establishment)	2144
Senior Assistant Registrar (Non-Academic Establishment)	2140
Works Engineer	2145
Director, Physical Education	2223
Medical Officer	2121
Carrier Guidance Unit	2132
Chief Security Officer	2126
Office	2127



## **CHAPTER 2**

### **Faculty of Allied Health Sciences**

#### **2.1. Introduction**

The Faculty of Allied Health Sciences (FAHS) of the University of Ruhuna was established in September 2017. Initially, it was started in the Faculty of Medicine as Allied Health Sciences Degree Programme (AHSDP) to provide undergraduate studies in the disciplines of Medical Laboratory Science and Nursing in 2008, and Pharmacy in 2010. The need for such undergraduate degree programmes were felt for several decades in the health sector of the country, which increasingly demanded highly trained individuals to cope with the trends in the modern healthcare system. These degree programmes have been commenced with the aim of producing graduates suitable for employment nationally and internationally.

This is the only FAHS located in the Southern Province of Sri Lanka. The faculty now has three departments offering four-year degrees namely, Bachelor of Science Honours in Medical Laboratory Science, Bachelor of Science Honours in Nursing and Bachelor of Pharmacy Honours. Dean's office, Departments of Pharmacy and Medical Laboratory Science are located at Uluvitike (about 6 km from Galle city) and Department of Nursing is located at Teaching Hospital, Mahamodara temporarily, until the construction of buildings at Walahanduwa (Galle) is completed.

Many academic staff members of these departments have foreign and local postgraduate qualifications. In addition to the permanent academic staff members, all the departments employ temporary academic staff members as assistant lecturers and demonstrators for supporting the academic activities of the departments. The permanent non-academic staff members who work in all the departments and the office of the Dean of the faculty provide services for the smooth running of all the undergraduate and postgraduate degree programmes of the faculty.

All three-degree programmes are conducted in English medium and each degree programme consists of 120 credits. The curricula have been designed for four years complying with Sri Lanka Qualification Framework (SLQF) guidelines with essential components including individual research projects and appropriate training programmes (hospital, clinical, community and industrial).

All the departments possess well-equipped laboratories and other infrastructure facilities for teaching and research work. At present, the faculty admits 620 students for all three-degree programmes (121 for Medical Laboratory Science, 360 for Nursing, 139 for Pharmacy) annually. The selection of students for undergraduate programmes is done by the University Grants Commission of Sri Lanka based on

the performance of students in the G.C.E. (Advanced Level) examination in biological stream.

The FAHS, University of Ruhuna intends to commence several new undergraduate degree programmes and postgraduate degree programmes relevant to health sciences in near future.

## **2.2. Vision and Mission of the Faculty**

### **2.2.1. Vision of the Faculty**

“To be the best Allied Health Science education institution in the country”

### **2.2.2. Mission of the Faculty**

“To provide educational opportunities for all pursuing higher education in allied health sciences, to produce good quality technically competent health care professionals to the country, to achieve sustainable development goals through alignment of educational programmes, to economic and health policies of the country”.

## **2.3. Aim of the Faculty**

To prepare a competent, caring, compassionate and reflective allied health graduate skilled in the delivery of patient care in collaboration with other healthcare professionals and capable of becoming potential care giving leaders, educators and researchers in the field of allied health sciences.

## **2.4. Administrative staff and contact information**

<b>Personnel</b>	<b>Name</b>	<b>Email</b>	<b>Mobile number</b>	<b>Internal Telephone number</b>
Dean	Prof. Imendra Kotapola	<a href="mailto:imendra.kotapola@yahoo.com">imendra.kotapola@yahoo.com</a>	+94-714460919	+94-912-243900
Head/Dept. of Medical Laboratory Science	Dr. J.A.N.Sandamali	<a href="mailto:jansandamali@ahs.ruh.ac.lk">jansandamali@ahs.ruh.ac.lk</a>	+94-759411622	+94-912-234676
Head/Dept. of Nursing	Dr. B.I. Wickramarachchi	<a href="mailto:biwickramarachchi@ahs.ruh.ac.lk">biwickramarachchi@ahs.ruh.ac.lk</a>	+94-703091222	+94-912-243241
Head/Dept. of Pharmacy	Ms. V.M. Pathiraja	<a href="mailto:vindyapathiraja@ahs.ruh.ac.lk">vindyapathiraja@ahs.ruh.ac.lk</a>	+94-703991765	+94-912-232896
Assistant Librarian	Ms. H.E.P. Mayuri	<a href="mailto:hepmayuri@lib.ruh.ac.lk">hepmayuri@lib.ruh.ac.lk</a>	+94-702470974	+94-912-223141
Assistant Registrar	Ms. G.H.C. Nadeeshani	<a href="mailto:ar@ahs.ruh.ac.lk">ar@ahs.ruh.ac.lk</a>	+94-713296942	+94-912-247490
Assistant Bursar	Ms. A. Anusha	<a href="mailto:ab@ahs.ruh.ac.lk">ab@ahs.ruh.ac.lk</a>	+94-718551561	+94-912-247590

## 2.5. Site map of the Faculty



## 2.6. Degree programmes

The Faculty offers primarily undergraduate programmes; Bachelor of Science Honours in Medical Laboratory Science (BSc Honours in Medical Laboratory Science), Bachelor of Science Honours in Nursing (BSc Honours in Nursing) and Bachelor of Pharmacy Honours (BPharm Honours) of four-year duration. These are full-time programmes consisting of a number of course units offered by individual departments in eight semesters. Examinations and evaluations are held at the mid and end of each semester.

## **2.7. Graduate profiles**

Graduate profiles of the three-degree programmes are as follows:

### **2.7.1. Graduate profile of BSc Honours in Medical Laboratory Science degree**

The BSc Medical Laboratory Science graduate of University of Ruhuna,

- will be a knowledgeable and skill-full person who will have the ability to carry out, develop and evaluate laboratory test processes in the clinical laboratories in Sri Lanka.
- will be a quality manager with the ability to apply and monitor quality laboratory processes and also ensure the safety in laboratories.
- will be a scientist at the interface of modern laboratory science and medical science assisting the pathologists and clinicians in diagnosing, monitoring and screening of both communicable and non-communicable diseases.
- will be readily employable in Medical Research Laboratories to carry out research.
- will adhere to national and international norms and practices of ethics when they perform their duties.
- will be a lifelong-learner and a self-learner who will strive his or her best to maintain the knowledge, skills and attitudes on their respective fields up to date.
- will be able to communicate effectively with patients and be sensitive to their needs and situations they have faced with.
- will contribute to their best as a member of the healthcare delivery team.
- will have the capability in training future undergraduates in Medical Laboratory Science and contribute to the development of the field of Medical Laboratory Science in practice and teaching.
- will be able to use the knowledge gained during undergraduate period to pursue on postgraduate studies effectively.

### **2.7.2. Graduate profile of BSc Honours in Nursing degree**

The BSc Nursing graduate of University of Ruhuna will,

- be a fully qualified nurse capable of applying and monitoring quality nursing care to the health care users nationally and internationally.
- be a part of the multidisciplinary health care team with positive interactions in managing patients in the hospital and in the community.
- be a lifelong self-active learner with postgraduate studies, contributing to knowledge by planning and conducting nursing research activities and sharing the findings with their colleagues.

- be a mentor with the capabilities of facilitating, supervising, training and acting as a role model for future undergraduates.
- be a policy maker who is involved in the upliftment of the country's health requirements in order to achieve best health indicators to the country.
- be a manager and a leader in the field of nursing and in the health sector to enhance the field of nursing in Sri Lanka according to the health care needs of the country.
- be a great nursing professional who is actively involved maintaining existing standards and creating new standards of nursing, and to improve the professionalism among the nursing professionals.

### **2.7.3. Graduate profile of Bachelor of Pharmacy Honours degree**

The BPharm graduate of University of Ruhuna will,

- have the knowledge, skills and correct attitudes to perform the Pharmacist's duties in health institutions in Sri Lanka and abroad.
- be a fully qualified pharmacist to perform duties and to help pharmaceutical industry in drug development, manufacturing and marketing.
- have the knowledge in practical aspects of delivering quality assured products as per pharmacopoeia, WHO and ISO standards.
- have the skills and attitudes as pharmacist to inform and counsel patients regarding drug therapy.
- be fully equipped with capabilities which are necessary for positive interactions with patients in community.
- be a professional and lifelong active learner contributing knowledge to develop the primary health care needs of the country.
- have the knowledge, skills and positive attitudes in training future undergraduates in Pharmacy and contribute to the development of the field of Pharmacy.
- maintain a high standard of professional ethics in discharging professional obligations.
- be able to pursue post graduate studies successfully in pharmacy and related fields.

## **CHAPTER 3**

### **Academic Regulations and Procedures**

#### **3.1. Admission requirement**

##### **3.1.1. On the basis of G.C.E. (A/L) results**

All applicants for the admission to Bachelor Degree programmes in the FAHS must satisfy the general university admission requirements laid down by the University Grants Commission. Transfer students referred by the University Grants Commission for admission to this faculty shall be admitted only with the recommendation of the Faculty Board.

##### **3.1.2. Lateral entry**

The criteria approved by the UGC standing committee for Allied Health Sciences will be applied for the recruitment of lateral entrants for the degrees offered by the FAHS. Up to 30% of the students may be selected from the professionals who have completed training at training schools of the Ministry of Health in Sri Lanka. Recruitment will be based on selection examination and interview. In addition, those candidates must fulfill the following criteria to be selected for the relevant degree programmes.

- Pass (S) in GCE (A/L) in Biology (Zoology & Botany), Chemistry, Physics in one sitting for Bachelor of Science Honours in Nursing and Medical Laboratory Sciences degrees.
- Pass (S) in GCE (A/L) in Biology (Zoology & Botany), Physics and Credit (C) in Chemistry in one sitting for Bachelor of Pharmacy Honours degree.
- Minimum 05-year service in state sector at the time of closure of application
- Below 45 years at the time of closure of application (Upper limit for 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/Sri Lanka Medical Council/Sri Lanka Nursing Council

### **3.2. Registration as a new student**

A student admitted to the faculty is registered as a fulltime student. He/she is required to maintain his/her registration during the total period of study (four years) in the faculty.

After the registration, every student is issued a registration number, an identity card which contains his/her photograph, a faculty handbook, and a student record book. This identity card is a valid mandatory document of identification of the student and should be kept with the student when entering the faculty premises, attending classes in the faculty, hospital or during field visits, sitting for examinations and entering faculty hostels. It should be produced when it is requested by any authorized personnel in the university. The identity card will be essential to enter the university premises and to borrow books from the library. These should be kept safely until the degree is awarded. In case of loss of a student identity card/student record book, it should be immediately reported to the Assistant Registrar/FAHS along with a copy of the police complaint.

In addition, for a nursing student, a Clinical Experience Record Book will be given. Further, a Pharmacy student will be given a Clinical Orientation Programme Book. These books need to be maintained appropriately and in case of a loss, a student should pay Rs. 300.00 and obtain a new book.

### **3.3. Registration fees**

Students should pay following fees at the registration.

Registration Fee	Rs. 200.00 per year
Medical Fee	Rs. 50.00 per year
Science Deposit Fee	Rs. 100.00 to be paid on admission
Library Fee	Rs. 100.00 to be paid on admission

Also, students should renew their registration at the beginning of each academic year by paying relevant fees.

### **3.4. Orientation programme**

The orientation programme is conducted during the first six weeks after the registration. However, the period of the programme depends on the time available between the registration of students by UGC and the commencement of the academic programmes of the faculty. The main aim of the programme is to guide students to become self-directed learners, improve their communication skills, information technology (IT) and soft skills, and familiarize the students to university

environment. It also introduces students to the disciplines of Medical Laboratory Science, Nursing and Pharmacy. It also includes introduction to study skills required as a learner in higher education, seminar presentations, teamwork, time management, critical appraisal and academic writing.

### **3.5. Development Programme for English (AH1010)**

This programme is designed mainly to conduct an English Course to prepare new students immediately after their enrollment to follow lectures and practical classes in English medium and this is a non-credit course. After the successful completion of Development Programme for English, students will sit for examination. The 80% attendance for the classes is required to sit for the examination. It is compulsory to achieve grade C or above in this examination to be qualified for the degree.

### **3.6. Continuous English Programme**

FAHS offers a three-year credit, non-degree, compulsory programme of English for the undergraduates of the faculty in three levels after the Development Programme for English named as English Proficiency Level I (AH1212), English Proficiency Level II (AH2112), English Proficiency Level III (AH2212), English Proficiency Level IV (AH3112) and English Proficiency Level V (AH3212) which are specifically done in the 1<sup>st</sup> year 2<sup>nd</sup> semester, 2<sup>nd</sup> year and 3<sup>rd</sup> year respectively. The 80% attendance for the classes is required to sit for the examination. The lessons are prepared to boost the four major skills of communication identified as reading, writing, listening and speaking. This is a student-centered interactive programme. It is compulsory to achieve grade C or above for all the levels to be qualified for the degree.

### **3.7. Course structure and academic calendar**

Course structure and academic calendar for each degree programme are described under each department (Chapters 4, 5 and 6).

### **3.8. Credit framework policy**

Each degree programme offers 120 credits. A credit is a time-based quantitative measure used to determine the weightage of a course/subject unit. The number of study hours of each course/subject unit is arranged according to the number of credits assigned as follows:

One credit is considered equivalent to 50 notional learning hours\* for a taught course, laboratory studies course or field studies/clinical work. In case of industrial/work-based training, including time allocated for assessments and in case of research, including time allocated for literature survey, one credit is considered



equivalent to a minimum of 100 notional hours\* (Sri Lanka Qualification Framework).

\*The notional learning hours include direct contact hours with teachers and trainers, time spent in self-learning, preparation for assignments, carrying out assignments and assessments.

In a course unit, one credit is equivalent to direct contact hours of,

- 15 for lectures
- 30-45 for practical/laboratory work
- 100 for research project
- 50 for clinical appointments and work-based training
- 100 for the field/industrial visits, elective placement, community placements

Credits must be earned after successful completion of the work required and assessment of learning outcomes.

### **3.9. Accreditation and specifications of the degree Programmes**

#### **3.9.1. Sri Lanka Qualification Framework**

The Sri Lanka Qualification Framework is a nationally consistent framework for all higher education qualifications offered in Sri Lanka. It recognizes the volume of learning of students and identifies the learning outcomes that are to be achieved by the holders of respective qualifications. SLQF comprises of ten levels and the descriptors of each of these levels are stated in a comprehensive manner. Since the volume of learning is considered in the SLQF, the number of credits that should be earned by students of each qualification is also given.

According to the SLQF level 6, the minimum number for credits a student must earn to complete the Bachelor of Science Honours in Medical Laboratory Science, Bachelor of Science Honours in Nursing and Bachelor of Pharmacy Honours degrees are 120.

#### **3.9.2. Accreditation**

Bachelor of Science Honours in Medical Laboratory Science and Bachelor of Pharmacy Honours degrees are accredited by Ceylon Medical College Council and Sri Lanka Medical Council respectively. Bachelor of Science Honours in Nursing degree is accredited by Sri Lanka Nursing Council.

Bachelor of Science Honours in Medical Laboratory Science, Bachelor of Science Honours in Nursing and Bachelor of Pharmacy Honours degrees are recognized

internationally. Thus, our graduates have equal chance as for those graduates from other Universities to apply for employment opportunities and to obtain scholarships/partnerships/placements in other local and foreign institutions or universities for higher education.

### **3.10. Attendance requirements**

Attendance is recorded in every academic activity; number of medical certificate submissions and daily attendance percentage for the course units are calculated. A student must maintain an 80% attendance for classes (lectures, practical and tutorial, orientation programme and for English programme) in all three-degree programmes. For the clinical/work-placements/industrial training to be eligible to sit for the examination of a course unit, both pharmacy and MLS students must maintain 80% attendance while nursing students must maintain 100% attendance. Attendance requirements for each degree programme are further described under the by-laws (Chapter 4, 5 and 6) and Guidelines for absenteeism and unbecoming conduct for Nursing Degree Programme (ANNEXURE 1).

#### **3.10.1. Medical certificates**

If a student is unable to attend lectures and/or practical classes due to an illness he/she should inform the university medical officer within a week. If a student wishes he/she can get medical assistance from a government or a private doctor, the University Medical Officer should also approve the medical certificates issued by them. Further details of submission of medical certificates are mentioned in the General Rules and Regulations set by the University of Ruhuna (ANNEXURE 2).

### **3.11. By-law of the University and rules and regulations for students in University of Ruhuna**

University by-law will be distributed among the students at registration. All students should abide to the by-laws of the University of Ruhuna. Furthermore, students should follow and abide to the General Rules and Regulations set by the University of Ruhuna (ANNEXURE 2) and Guidelines for Prohibition of Ragging and other forms of Violence in Educational Institutions (ANNEXURE 3).

### **3.12. By-laws of degree programmes**

By-law of each degree programme consists of all the academic related information, regulation and activities. The by-laws of each degree programme are described in the chapters 4, 5 and 6. All students should be aware and refer the by-law of the relevant degree programme during the academic period.

## **CHAPTER 4**

### **Department of Medical Laboratory Science**

#### **4.1. Introduction**

The Department of Medical Laboratory Science is situated in Uluvitike premises, which is in close proximity to the Teaching Hospitals, Karapitiya and Mahamodara. The present annual intake for the Medical Laboratory Science degree programme is 60. The Department has several lecture halls, tutorial rooms and well-equipped laboratories.

#### **4.2. Degree offered by the Department**

The Department of Medical Laboratory Science awards Bachelor of Science Honours in Medical Laboratory Science (BSc Honours in Medical Laboratory Science) degree for those who successfully complete the degree programme and pass the stipulated examinations. It was started as a full-time four-year programme in the year 2008.

Bachelor of Science Honours in Medical Laboratory Science degree programme intends to give a sound scientific knowledge and attitudes combined with the necessary skills to work in any medical laboratory.

The Medical Laboratory Science is a demanding field of science which combines the use of new technologies with the application of theoretical knowledge to perform complex procedures on tissue specimens, blood samples and other body fluids. It has an important role in modern medicine. The laboratory investigations provide

The Medical Laboratory Science graduates will have a challenging and a rewarding career in medical and research laboratories both in the government and the private sector. The Medical Laboratory Science degree programme will prepare to face the challenges in the ever-evolving field of Medical Laboratory Science.

#### **4.3. Vision and Mission of the Department**

The Vision of the Department of Medical Laboratory Science is to be the best Medical Laboratory Science degree programme in Sri Lanka.

The Mission of the Department of Medical Laboratory Science is to teach and train undergraduates in Medical Laboratory Science which will enable them to develop academic and technical competence in clinical laboratory practice and to manage a

clinical laboratory in cooperation with the laboratory personnel and other healthcare professionals.

#### 4.4. Research areas of the Department

The laboratories of the Department of Medical Laboratory Science are equipped with many necessary instruments and other resources to carry out research in many disciplines. The academic staff of the Department of Medical Laboratory Science conducts research in the fields of:

Biochemistry

Clinical Biochemistry

Microbiology

Haematology

Histopathology

Parasitology

in collaboration with academic staff members of the Faculty of Medicine. A considerable number of valuable research publications and communications are produced annually.

All Medical Laboratory Science undergraduates should carry out an individual research project during the third term of their final year, under the supervision of the academic staff members. 10 credits have been allocated for these research projects and are evaluated by project reports and poster presentations.

#### 4.5. Academic staff of the Department

<b>Head</b>
Dr. J.A.N. Sandamali, <i>BSc sp MLS (Hons) (PDN), MSc (PDN), PhD (RUH)</i>
<b>Senior Lecturers:</b>
Dr. W.V.R.T.D.G. Bandara, <i>BSc sp. Human Biology (Hons) (SJP), MPhil (SJP), PhD (RUH)</i>
Dr. K. B. Gunawardana, <i>BSc (Hons) (PDN), MSc (PDN), PhD (USA)</i>
Dr. H.H. Peiris, <i>BSc (Hons) (KLN), MSc (PDN), PhD (RUH)</i>
Dr. E.H. Silva, <i>BSc sp MLS (Hons) (SJP), PhD (RUH)</i>
Dr. P. Wijesiriwardhana, <i>BSc sp MLS (Hons) (PDN), MSc (PDN), PhD (COL)</i>
Dr. T. Ramanayake, <i>BVSc (Hons) (UOP, SL), Ph.D. (Japan)</i>
<b>Lecturers:</b>
Dr. A.M.S.S. Amarasiri, <i>BSc MLS (Hons) (RUH), PhD (RUH)</i>
Ms. K.G. Jayasekara, <i>BSc sp MLS (Hons) (PDN), Reading for PhD (SJP)</i>
Ms. A.A.D.S. Amarasinghe, <i>BSc MLS (Hons) (RUH), Reading for PhD (KLN)</i>
Dr. W.B.N.T. Fernando, <i>BSc MLS (Hons) (PDN), PhD (PDN)</i>
Ms. U.G.S. Janeesha, <i>BSc MLS (Hons) (PDN), Reading for PhD (Taiwan)</i>
Mr. N.C. Gunarathne <i>BSc (Hons) Physio (Col), BSc (Hons) P&amp;O, Dip Sports &amp; Ex Scie, HSPC (UK), ISPO</i>

#### **4.6. Course structure**

##### **4.6.1. Duration of the course**

This is a full-time course which runs over eight semesters.

##### **4.6.2. Medium of the instruction**

The course is conducted in English medium.

##### **4.6.3. Academic year**

Each academic year consists of two semesters. In a semester, academic activities run over 15 weeks. After completion of the academic activities assigned to the first half of the semester, mid-semester examinations are held. At the end of each semester, end-semester examinations are held. Two weeks study leave will be granted prior to all end-semester examinations. The students will be given two weeks of vacation after each end-semester examination. One week of holidays will be given for Sinhala & Tamil New year and for Christmas.

##### **4.6.4. General Academic calendar**

<b>First Semester</b>	<b>Weeks</b>	<b>Second Semester</b>	<b>Weeks</b>
Academic activities – first half	07	Academic activities - first half	07
Mid semester Vacation	01	Mid semester Vacation	01
Academic activities - second half	07	Academic activities - second half	07
Study leave	02	Study leave	02
End Semester Examination	04	End Semester Examination	04
Vacation	02	Vacation	02
Total	23	Total	23

**4.7. Course units offered by the Department for BSc Honours in Medical Laboratory Science degree**

<b>Academic Year</b>	<b>Subject unit code</b>	<b>Subject unit title</b>	<b>No. of credits</b>
Year 1 Semester 1	MLS 1111	Anatomy I	01
	MLS 1122	Basic Chemistry	02
	MLS 1b33	Basic Physics	03
	MLS 1142	Fundamentals of Biochemistry	02
	MLS 1154	Medical Laboratory Practice	04
	MLS 1163	Physiology I	03
<b>Total</b>			<b>15</b>
Year 1 Semester 2	MLS 1211	Anatomy II	01
	MLS 1222	Basic Chemistry II	02
	MLS 1232	Basic Statistics	02
	MLS 1b41	Biochemistry Practical	01
	MLS 1252	Enzymes, bioenergetics and hormone action	02
	MLS 1263	Metabolism and Regulatory Mechanisms	03
	MLS 1274	Physiology-II	04
	AHS 1210	First aid and Basic life support	00
<b>Total</b>			<b>15</b>
Year 2 Semester 1	MLS 2112	Basic Bacteriology & Basic Immunology	02
	MLS 2122	Basic Bacteriological Techniques	02
	MLS 2133	Basic Genetics and Molecular Biology	03
	MLS 2144	Basic Haematology	04
	MLS 2153	Medical Parasitology	03
	MLS 2162	Transfusion Medicine	02
<b>Total</b>			<b>16</b>
Year 2 Semester 2	MLS 2212	Andrology, Subfertility and Reproductive Health	02
	MLS 2222	Animal Research	02
	MLS 2234	Applied Haematology	04

	MLS 2242	Diagnostic Bacteriology	02	
	MLS 2252	Epidemiology	02	
	MLS 2260	Information & Communication Technology	0	
	MLS 2273	Systemic Bacteriology	03	
Total			15	
Year 3 Semester 1	MLS 3113	Clinical Biochemistry I	03	
	MLS 3121	Cytopathology & Cyto-technology	01	
	MLS 3131	General Pathology	01	
	MLS 3142	Mycology & Virology	02	
	AHS 3122	Research Methodology	02	
	MLS 3b56	Research Project	06	
Total			15	
Year 3 Semester 2	MLS 3213	Applied Laboratory Management	03	
	MLS 3222	Basic Laboratory Management	02	
	MLS 3232	Biotechnology	02	
	MLS 3243	Clinical Biochemistry II	03	
	MLS 3253	Histotechnology	03	
	MLS 3262	Medical Laboratory Instrumentation	02	
Total			15	
Year 4	MLS 4b17	Work-Based Training in Clinical Biochemistry	07	
	MLS 4b27	Work-Based Training in Haematology and Transfusion Medicine	07	
	MLS 4b38	Work-Based Training in Histotechnology	08	
	MLS 4b18	Work-Based Training in Medical Microbiology	08	
Total			30	
Total Credits			121	
Optional Course Units				
Year	Semester	Course Units	Course Unit Code	Credits
1	1 or 2	Mindfulness & Peace building	AHS 1000	0

3	1 or 2	Professional Ethics	AHS 3101	1
4	1 or 2	Essential Skills for Career Development	AHS 4011	1
4	1 or 2	Management	AHS 4221	1
<b>Compulsory NGPA Course Units</b>				
Year	Semester	Course Units	Course Unit Code	Credits
1	1	Development Programme for English	AH1010	0
1	2	Proficiency in English Level I	AH1212	2
2	1	Proficiency in English Level II	AH2112	2
2	2	Proficiency in English Level III	AH2212	2
3	1	Proficiency in English Level IV	AH3112	2
3	2	Proficiency in English Level V	AH3212	2
<b>Compulsory certificate course</b>				
Year	Semester	Certificate course	Course Code	Credits
2	-	Phlebotomy certificate course	-	-
<u>Identification of course unit code</u> <i>The code consists of four digits prefixed by a set of three letters as described below:</i>  <i>Three letters MLS (prefix) for Medical Laboratory Science degree programme</i> <i>First digit Academic year (1, 2, 3, 4)</i> <i>Second digit Semester of each academic year (1, 2)</i> <i>Third digit Course unit number of each semester</i> <i>Fourth digit Allocated credit value</i>  <i>Course units with prefix MLS are compulsory for BSc Hons in MLS degree</i> <i>Course units with prefix AHS are common and optional for all AHS graduates</i>				

#### 4.8. Course unit descriptions for BSc Honours in Medical Laboratory Science degree

##### MLS 1111 Anatomy I

Basic histology of epithelial tissues and connective tissues, Anatomy & histology of heart, Different types of blood vessels and their histology, Basic & systemic embryology, Anatomy & histology of respiratory system



**MLS 1122 Basic Chemistry I**

Introduction to chemistry, Periodic properties and chemical bonding, Measurement and errors, Titrimetry: Acids and bases, redox, complexometry, Preparation of buffers, Organic chemistry: Bonding, Hybridization & resonance; Stereochemistry; Physical chemistry: Chemical kinetics.

Introduction to chemistry laboratory, Measurement and errors, Preparation of primary standards and buffers, Acid base titrations, Redox titrations, Complexometric titrations. Investigating kinetic factors and reaction rates. Applications of chemistry, Titrimetry, Stereochemistry, Kinetics

**MLS 1b33 Basic Physics**

Newton's Laws and applications; Velocity, Acceleration, Momentum, Inertia, Impulse, Collisions, Work and Energy, Gravity, Waves and Sound, Thermal Physics, Geometrical and Physical Optics, Introduction to Laser Physics, Basic Electricity, Basic Electronics, Treatment of Errors, Laboratory experiments

**MLS 1142 Fundamentals of Biochemistry**

Introduction to cell biology and biochemistry, Structure and functions of the cell, Structure and functions amino acids & proteins, Structure and functions of carbohydrates, Structure and functions of lipids, Structure and functions of nucleotides & nucleic acids

**MLS 1154 Medical Laboratory Practice**

Introduction to MLP and services of Pathology laboratory, Pathology tests, Resources for laboratory, SI units and Calculations for the laboratory, Introduction & Principles of laboratory safety, Chemical & radiation safety, Laboratory acquired infections and Universal precautions, Physical resources of laboratory; Use of spectrophotometer; The use of Microscope; Total testing process, Pre analytical phase – an overview; Pre analytical phase in Haematology, Molecular biology, Histopathology, Cytopathology, Biochemistry & Microbiology; Analytical phase & post analytical phase; Test Methodologies (Method Hierarchy, Reference materials & Working calibrators); Biochemical analysis of Urine; Principles of laboratory waste disposal; Sterilization & disinfection; Professionalism & Ethics, Laboratory Accreditation – An introduction; Internal quality control; External quality assessment

**MLS 1163 Physiology I**

Cardiovascular system, Disorders of cardiovascular system, Electrical & mechanical events of cardiac cycle, Cardiac output, Haemostasis & bleeding disorders, Body fluid composition, Starling forces, Components of blood, Haemopoiesis, Anaemia, Polycythemia, Heart failure, Ischaemic heart disease

**MLS 1211 Anatomy II**

Anatomy & histology of GIT, Urinary system, Endocrine system, Male & female reproductive system, Musculoskeletal system and central nervous system

**MLS 1222 Basic Chemistry II**

Spectroscopic Techniques – UV/Visible, AES/AAS, Fluorescence Chromatography, Electroanalytical chemistry, Thermodynamics, Colligative properties, Applications of Radio-isotopes and Bio-materials.

Lab: Investigating complementary colours and absorption spectra, Separation of plant pigments using column Chromatography, Investigation of redox reactions and voltaic cell. Determination of freezing point depression, Synthesis of aspirin and recrystallization, Investigating kinetic factors and reaction rates.

**MLS 1232 Basic Statistics**

Introduction to Medical Statistics; Variables & variability; Analysing, summarizing & presenting data; Normal, Bernoulli and Poisson distributions; Probability; Population & sampling; Hypothesis testing - Qualitative data; Hypothesis testing - Quantitative data; Correlation & regression

**MLS 1b41 Biochemistry Practical**

Identification of Carbohydrates, Lipids, Amino acids and Proteins, Activity of Enzymes, Guided Learning Session on Vitamins, Determination of plasma glucose concentration, Determination of serum cholesterol concentration, Determination of serum urea concentration, Guided Learning Sessions on Minerals, Revision practical

**MLS 1252 Enzymes, bioenergetics and hormone action**

Enzymes, Biological oxidation and reduction, Transport across cell membranes, Vitamins, Hormone action

**MLS 1263 Metabolism and Regulatory Mechanisms**

Introduction to Metabolism, Metabolism of Carbohydrates, Metabolism of Lipids, Metabolism of Amino Acids, Biosynthesis of Proteins, Metabolism of Nucleotides, Metabolism of Minerals, Metabolism of Haemoglobin

**MLS 1274 Physiology-II**

Mechanism of breathing, Lung volumes, Spirometry, Abnormal findings in spirometry, Transport of oxygen and carbon dioxide in blood, Hypoxia / Cyanosis, Functions of liver, Liver function tests and jaundice, Renal physiology, Glomerular filtration, Renal clearance, Acid base balance and derangements, Urine full report, Serum & urine osmolality / Specific gravity, Endocrine system, Cerebrospinal fluid

**AHS 1210 First aid and Basic life support**

Role in the emergency medical service, Primary survey and Secondary survey, Airway management, Breathing management, Circulatory management, First aid for injuries, Breathing emergencies, First aid for medical conditions, First aid for environmental health injuries, Laboratory accidents and first aid treatment

**MLS 2112 Basic Bacteriology & Basic Immunology**

Introduction to bacteriology, Bacterial cell structure and function, Bacterial growth and reproduction, Metabolic pathways used by bacteria, Bacterial genetics, Host parasite relationship, Sterilization and disinfection

Introduction to Immunology and innate immunity, Adaptive immunity - Humoral immunity & cell mediated immunity, Auto immunity, Immunodeficiency, hypersensitivity and transplantation, Methods of acquiring specific immunity and immunization, Immuno-diagnostic methods

**MLS 2122 Basic Bacteriological Techniques**

Gram staining and reagent preparation, Culture media preparation, Counting of bacteria, Motility test, Endospore test, Capsule test, Acid fast test, Biochemical examination of bacteria (Catalase, Coagulase, Oxidase, Indole, MRVP, Citrate, Bile solubility test, Urease, KIA/TSI, OF test, Phenylalanine test, DNase test etc), Patterns of hemolysis shown by bacteria, Maintenance and use of bacteria stock cultures

**MLS 2133 Basic Genetics and Molecular Biology**

Chromosome structure and function; A review of DNA structure and gene expression; genome perpetuation; Ploidy; Mendelian genetics and deviation; Human genome organization; Instability of human genome- mutations and DNA repair; Immuno-genetics; Basics of functional genomics and proteomics; Epigenetics; Genes in pedigrees and populations; Genetic basis of heritable diseases; Genetic counselling and ethical issues in genetics; Molecular Pathology-including Cancer genetics; Basics in mapping and identifying disease genes and mutations; Analyzing DNA and gene structure; Molecular diagnostics; Animal models for genetic disease; DNA analytical techniques (laboratory)-PCR based and cell based cloning; Gene manipulation; Personalized medicine

**MLS 2144 Basic Haematology**

Anticoagulants, Cell analysis, FBC automation, manual methods, morphology, changes in whole blood property in disease (ESR), Haematopoiesis & molecular basis, Classification of Anaemia, Hypo-proliferative anaemia – Iron deficiency, Iron overload, Vitamin B12 and Folate deficiency, Marrow failure syndromes, Haemolytic anaemia, Membrane defects, Haemoglobin defects, Enzyme defects

**MLS 2153 Medical Parasitology**

Introduction to Medical Parasitology; Classification of medically important parasites; Intestinal Helminths; Intestinal Protozoan; Blood Helminths; Blood protozoans; Other Tissue Helminths; Other Tissue Protozoans; Parasitic Arthropods; Vectors; Zoonoses; Emerging/re-emerging/imported/introduced infections; Field based sample collection, transport and preservation of parasitological specimen/s; Staining techniques; Concentration techniques; Culture techniques; Rapid diagnostic techniques & newer diagnostic techniques including molecular diagnostics; Parasite quantification techniques and report writing

**MLS 2162 Transfusion Medicine**

General Immuno-haematology; ABO blood group system; The Rhesus blood group system; Blood group systems other than ABO and Rh; Techniques for identifying blood group antigens; Compatibility test; Blood tests during and after pregnancy; Autoimmune haemolytic anaemia; Blood Components – preparation/ storage/ maintenance; Adverse effects of blood transfusion and investigations; Special blood products; Stem cell transplantation; QA in transfusion medicine

**MLS 2212 Andrology, Subfertility and Reproductive Health**

Introduction to Anatomy and Physiology of Male & Female reproductive system (T); Spermatogenesis and Oogenesis; Female reproductive cycle; Andropause and Menopause; Disorders in male & female reproductive system and subfertility; Seminal fluid analysis; Assisted Reproductive Technologies; Sperm Processing Techniques in Assisted Reproduction Technologies; Sperm bank and storage of sperms; Laboratory ethics in ART

Practical: Seminal fluid analysis; Basic sperm function tests; Culture media and sperm preparation for ART; Cryopreservation and thawing of semen; Maintaining of a sperm bank.

**MLS 2222 Animal Research**

Introduction to animal experiments, History of laboratory animal science, Global and Sri Lankan perspective, Ethics involving laboratory animals in research and alternatives to animal research. Breeding of animals for research purposes, Genetically modified experimental animals. Standardization of experiments involving animals, Basics of handling rats/ mice for research purposes, Experimental techniques in animal research including restraining, Feeding, Analgesia, Euthanasia, Administration of drugs, Techniques of drawing blood, Collection of urine and harvesting organs, Nutrition in laboratory animals, Animal models in research, Chemically induced animal models of diseases, Maintenance of an animal research facility.

**MLS 2234 Applied Haematology**

Myeloid disorders (Introductory lecture), Myeloproliferative disorders, Myelodysplasia, Acute Myeloid Leukemia, Sudan Black B stain/ MPO stain, Lymphoma and lymphoproliferative disorders, Acute Lymphoblastic Leukemia, Multiple myeloma, Bence Jones Protein test, Haemostasis, BT /CT, vWF, Platelet Function, Coagulation, Defects of haemostasis, DIC, PT/INR, APTT, 50:50 mixing, Serum Light chain assay, Factor assay, Inhibitor Assay, Special tests FV leiden/AT deficiency/PC, PS deficiency, D. Dimer/FDP/Fibrinogen Level, Genetic changes relevant to hematological diseases, Stem cell transplantation, Future of hematology diagnostics, Full Blood Count (Revision practical), Radio Nucleotide studies in Hematology, Flowcytometry, Molecular Diagnostics, Haematological changes in sepsis and inflammation, scientific basis of highly specialized test

**MLS 2242 Diagnostic Bacteriology**

Sample collection, Transportation and reception; Processing of blood, Urine, Sputum, Stool, CSF, Body fluids and swab specimens; Antibiotic sensitivity test methods - NCCLS & Stokes methods

**MLS 2252 Epidemiology**

Basic concepts of epidemiology and uses of epidemiology in Medical Laboratory Sciences; Definition, Calculation and interpretation of prevalence, Incidence, relative risk and odds ratios and attributable risks; Epidemiological research designs; Errors and biases; Applications of repeatability, validity, sensitivity and specificity in epidemiological research and screening; Critical analysis of the biomedical research studies using epidemiological concepts and techniques

**MLS 2260 Information & Communication Technology**

Introduction to ICT, Basic Concepts of Information and Communication Technology, Computer literacy Skills (Ms Office), Programming techniques (Python), Fundamentals of Web Developing, Database Management Systems (MS Access), Web Application Development (HTML, CSS, Java script), Data Communication and Computer Networking, New Trends in ICT, Project

**MLS 2273 Systemic Bacteriology**

Gram positive and negative bacteria, Acid fast bacilli, Spirochetes, Actinomycetes, Mycoplasma & Chlamydia, Antibacterial agents

**MLS 3113 Clinical Biochemistry I**

Introduction to spectral techniques, Flame photometry and atomic absorption, Fluorimetry, Nephelometry and turbidimetry, Introduction to immunoassays, Immunochemical techniques for Qualitative Analysis, Immunochemical techniques for Quantitative Analysis, Labelled Immunochemical Assays, Diabetes and hypoglycaemia, Disorders of lipid metabolism, Disorders of water and electrolytes,

Acid base disorders, Investigations for cardiovascular diseases, Investigations for GI disorders, Endocrine dysfunction – pituitary and Thyroid, Investigations for adrenal gland and reproductive system disorders, Quality management in Chemical Pathology laboratory, Metrological traceability and Quality Assurance, Spectrophotometry (presentation), Spectral techniques, Immuno assays (presentation), Immuno assay

Setting up a standard curve, Calibration of a Spectrophotometer, Measurement of serum glucose and cholesterol, Measurement of serum protein and albumin, Evaluation of IQC and EQA reports, Data interpretation in clinical biochemistry I – Glucose and Lipid, Data interpretation in clinical biochemistry II – cardiovascular diseases, acid base/electrolyte, Data interpretation in clinical biochemistry III – liver and GI tract disorders

### **MLS 3121 Cytopathology & Cyto-technology**

Introduction to Cytopathology & specimen collection; Cytopathology - Cervical screening; Cytopathology - Recognition of abnormal cells in fluids; Quality assurance in a cytopathology; Reagent preparation for Pap staining & cytological staining; Cytology sample processing, fixation & Pap staining; Recognition of abnormal cells in fluids; Identification of normal and abnormal cells in cervical smears; Uses and maintenance of Cytology equipment; Basic Principles of quality assurance in cytology

### **MLS 3131 General Pathology**

Cell injury, Cellular and tissue response to damage, Cellular adaptations to injury, Concepts of thrombosis and infarction, Basic concepts of neoplasia, Basic concepts of molecular basis of carcinogenesis, Cellular changes in neoplastic cells, Pathological Pigmentation, Calcification, Amyloidosis, Slide demonstration on cellular changes

### **MLS 3142 Mycology & Virology**

Mycology- classification, structure & morphology, Superficial fungal infections, Subcutaneous fungal infections, Systemic fungal infections, Opportunistic fungal infection, Antifungal agents, Serological diagnosis of fungal infections, Virology- classification, structure & morphology, Systemic Virology

### **AHS 3122 Research Methodology**

What is meant by “research” in biomedical sciences? What is a research problem? Writing hypothesis and research questions, Writing study objectives; Literature review; how to use reference data bases (Eg. PubMed, Google scholar etc.) Different types of research designs; Quantitative and qualitative research approaches; Data collection methods; Populations and sampling, parameters and statistics; Principles of sampling and sample size calculations; Importance of obtaining ethical clearance, Preparing data collection instruments; Evaluation of the

quality of data gathered; Usage of non-parametric methods and Analysis of variance (ANOVA); Applications of computer software in biomedical data analyzing (SPSS); Preparing a research protocol; Data collection and analysis of data using appropriate statistical techniques; preparation of bibliography, referencing software (Eg. Endnote, Mendeley), Dissemination of results of a research project; Writing a report/an abstract / a dissertation

### **MLS 3b56 Research Project**

Selection of a suitable research topic, Submission of the synopsis, Formulation of a research proposal, Oral presentation of the project proposal, Submission of the revised project proposal, Obtaining ethical approval, Conducting research and data collection, Data analysis and interpretation of the results, Submission of dissertation and research presentation

### **MLS 3213 Applied Laboratory Management**

TQM, Selection of Quality control materials, Quality management – Histopathology laboratory, Microbiology & Immunology laboratory, Haematology laboratory, Genetics laboratory, Laboratory Accreditation – Management requirements, Laboratory Accreditation – Technical requirements, Laboratory Audits, Competency evaluation, Management of Point of Care (POC) testing, Employee selection, Performance appraisals and scheduling, Financial Management and Generation of revenue, Selection and implementation of new equipment and procedure, Introduction of new tests/ procedures, Validation of Test Kits, Laboratory chain management, Management of collection centers, Supply chain management, Test costing, laboratory Audit, Risk evaluation, WHO GLP implementation in research laboratories with OECD guidelines and related other standards.

### **MLS 3222 Basic Laboratory Management**

Principles of Management, Introduction to Laboratory management, Ethics in laboratory Medicine, Overview of Laboratory Management & current health care environment, Managerial leadership, Human resource management, Effective communication in lab Management, Space management, Equipment management, test process management, Laboratory safety and emergency management, Preparation of a safety check list for a laboratory, Emergency preparedness and contingency plan. Use of MSD and labels in laboratory safety, Management of laboratory information system, Outsourcing management, Calculation of reference ranges, Grievances handling, Basics in GLP good laboratory Practice in research laboratories with understanding on OECD requirements.

### **MLS 3232 Biotechnology**

Overview on biotechnology; Issues related to biotechnology; Cell fraction and constituent detection; Enzymes and biotechnology; Industrial biotechnology; Nucleic acid extraction; Gene libraries and screening; Animal transgenic; Biotechnology in

medicine; Biotechnology safety; Introduction to Animal cell culture; Cell lines and biology of cultured cells; Application of cell lines for research purposes; Amino acids/ Enzyme kinetics; Protein/ DNA electrophoresis; Industrial visit

### **MLS 3243 Clinical Biochemistry II**

Principles of osmometry, Principles of electrochemistry and ion selective electrodes, Principles of chromatography, Liquid chromatography / HPLC, Gas chromatography Mass spectrometry, Optimization of chromatographic techniques, Investigations for Liver disorders, Investigations for renal diseases, Disorders of bone metabolism, Principles of screening and the use of biochemical tests in inborn errors of metabolism and malignant disease, Urine analysis, Cerebro spinal fluid (CSF) and other body fluid analysis, Clinical enzymology, Therapeutic drug monitoring, toxicology and drugs of abuse, Automation and point of care testing

Laboratory Automation (presentation), Laboratory Errors (presentation), Accreditation and quality management (presentation), ITI (chromatography) (presentation), Chromatography & other analytical techniques (ISE, Osmometry) Urine analysis, Cerebro spinal fluid (CSF) and other body fluid analysis, Measurement of serum urea and creatinine, Measurement of serum calcium and phosphate, Measurement of serum AST and ALT, Estimation of serum bilirubin/SOP writing, Adoption of new test kits (comparison with BA plot), Automation (THK) 1, ITI field visit, Data interpretation in clinical biochemistry (investigation of renal disorders/ Liver disorders, urine, body fluid analysis/bone metabolism)

### **MLS 3253 Histotechnology**

Introduction to Histotechnology; Fixation of tissue; Tissue processing & Embedding; Introduction to paraffin section cutting; Decalcification of tissue; Scientific basis of routine stains used in histology; H&E stain; Special stains (Gram stain, Fouchet's, Masson's Fontana, Masson's Trichrome, PTAH, Alcian blue & Perl's stain, Van Gieson, Silver stain, Congo red, PAS; Immunohistochemistry; Fluorescence in-situ hybridisation (FISH); Frozen sections and their uses; Problem avoidance and troubleshooting in staining; Basic concepts of electron microscopy; Maintenance of equipment used in histotechnology

### **MLS 3262 Medical Laboratory Instrumentation**

Basic Concepts of Instrumentation Electronics; sensors and transducers, signal processing; Introduction to automation and History; Absorption/Emission Spectrophotometry related instruments; Instruments relate with Chromatography technique; Particle Counters; Electrophoresis and Instrumentation Systems; Instruments used in Histopathology laboratory; Instruments used in Medical Microbiology laboratory; Blood coagulation analysers; Preventive maintenance and Corrective maintenance of the selected laboratory instruments following SOPs;



Reliability & Validity of test results; Quality Assurance; Laboratory Information systems; Hospital Information Systems, Standard protocols for data communication

#### **MLS 4b17 Work-Based Training in Clinical Biochemistry (07 weeks)**

Following areas will be covered during the training on clinical biochemistry; common analytical principles used in Clinical Biochemistry and their applications; pathological basis for ordering common general and specialized tests in Clinical Biochemistry; perform general and specialized biochemical tests using manual, semi-automated and automated platforms adhering to principles of quality assurance; interpret general and specialized test reports in Clinical Biochemistry; perform analytical validation of test results using internal quality control and patient data; important steps of quality management and quality assurance related to Clinical Biochemistry; interpret External Quality Assurance reports and suggest appropriate corrective and preventive actions; perform basic techniques in Molecular Biology.

#### **MLS 4b27 Work-Based Training in Haematology and Transfusion Medicine (07weeks)**

Following areas will be covered during the training on Haematology and Transfusion Medicine; perform following tests including sample processing, reagent preparation (if necessary) and quality control and generate complete reports (FBC, ESR, BT, CT, PT, APTT, Reticulocyte count and any individual test in FBC Eg. Hb/PVC/WBC/DC/Platelet count); trouble shooting of tests that are mentioned above including troubleshooting in automation; perform blood smear staining with reagent preparation; perform blood grouping, donor screening tests and reagent cell suspension preparation; troubleshooting and monitoring QC in transfusion medicine design a Haematology laboratory including ordering of reagents, equipment and consumables; maintain equipment properly, adhere to proper waste management procedures and perform safety audit.

#### **MLS 4b38 Work-Based Training in Histotechnology (09 weeks)**

Following areas will be covered during the training on Histotechnology; perform every step-in preparation of Histology and Cytology slides with routine stains and make them ready for the assessment and diagnosis by the pathologist; identify and rectify problems related to the process of preparation of tissue for assessment. E.g. carry-overs, floaters, over-dehydration, artifacts etc.; follow laboratory protocols and perform special stains required in Histopathology screen cervical smears and identify normal and abnormal cells; describe basic principles in immuno-histochemical staining and troubleshooting; maintain laboratory safety measures; maintain registers and inventories in a laboratory.

#### **MLS 4b48 Work-Based Training in Medical Microbiology (09 weeks)**

Following areas will be covered during the training on Medical Microbiology; assess clinical specimens for suitability for processing; perform basic techniques of isolation, identification and sensitivity testing of medically important bacteria, viruses and fungi; interpret basic microbiological laboratory investigation results and communicate the results to the Trainer /Consultant Microbiologist, maintain personal and laboratory safety measures.

The above work-based training will be conducted at the following institutions.

1. Teaching Hospital Karapitiya, Galle
2. Teaching Hospital Mahamodara, Galle
3. District General Hospital, Matara
4. Base Hospital Balapitiya, Elpitiya and Kamburupitiya.
5. Faculty of Medicine, University of Ruhuna, Galle
6. National Institute of Health Sciences, Kalutara
7. Medical Research Institute, Colombo

#### **4.9. By-Laws of the Bachelor of Science Honours in Medical Laboratory Science degree**

The by-law of Bachelor of Science Honours in Medical Laboratory Science degree is on pending approval from the University of Ruhuna.

#### **Degree of Bachelor of Science Honours in Medical Laboratory Science**

**By-Law No. xx-xx**

**University of Ruhuna**

By-Law made by the Council of the University of Ruhuna, on xx.xx.202x under section 135 of Universities Act No. 16 of 1978, and amendments thereof.

**BY - LAW**

This By-Law may be cited as Bachelor of Science Honours in Medical Laboratory Science By-Law No. 100-2020 of the University of Ruhuna and shall come into effect on xx.xx.202x

The Degree of Bachelor of Science Honours in Medical Laboratory Science shall be offered under this By-Law.

## **1. General Requirements for Award of the Degree**

### **1.1 The Degree of the Bachelor of Science Honours in Medical Laboratory Science, hereafter referred to as “the degree”, shall be awarded by the University of Ruhuna, hereafter referred to as “the University”, to a student who:**

- a) has been admitted to the University as a student under section 135 of Universities Act No. 16 of 1978 and amendments thereof, and
- b) has been duly registered at the University, during the period of study prescribed by this By-Law, and
- c) has completed the courses of study to the satisfaction of the Senate, as prescribed by this By-Law and Rules and Regulations made thereunder, and
- d) has passed examinations as prescribed by this By-Law and Rules and Regulations made thereunder, and
- e) has paid such fees as prescribed by the University for his/her case, according to the Rules and Regulations of the University, and
- f) has fulfilled all the above requirements within eight academic years for the B.Sc. Honours in Medical Laboratory Sciences Degree from the date of enrollment for the academic programme of the University, provided that it shall be within the power of the Senate to declare for some specified reason(s) that a student is eligible for the award of the Degree on a subsequent occasion, and
- g) has no on-going disciplinary inquiry conducted by the University, and
- h) has no on-going inquiry conducted by the University on examination offences.

### **1.2 The abbreviations of the names of the Degree shall be B.Sc. Hons in MLS.**

## **2. Eligibility for Registration**

### **2.1 A student selected for admission to the Bachelors Degree Programmes in the Faculty of Allied Health Sciences,**

- a) must satisfy the general University admission requirements for Faculties of Allied Health Sciences laid down by the University Grants Commission, Sri Lanka, and
- b) must have been selected, according to the stipulated University Admission Criteria.

### **2.2 Applicants with foreign qualifications referred for admission by the University Grants Commission shall be admitted only with the consent of the Faculty Board.**

## **3. Registration for a Degree Programme/ Course Units**

### **3.1 A student selected for admission shall register to follow a Degree Programme. Such registration shall be carried out as prescribed by the Senate.**

- 3.2 Registration for semesters of a Degree programme shall be determined in accordance with the regulations laid down by the Senate.
- 3.3 Students shall register for all required course units for each semester prescribed by the Faculty. Students, who fail to register for any course unit shall receive a grade E\*. Such a student shall register for those course units in the subsequent immediate attempt with the approval of the Faculty Board and shall be considered as a repeat student unless he/she has been given an academic exemption by the Senate.
- 3.4 A candidate admitted to a Degree Programme shall not be permitted to concurrent registration for any other fulltime course of study.

#### **4. Programme of Study**

- 4.1 The B.Sc. Hons in MLS Degree Programme shall be fulltime courses with a duration of four academic years.
- 4.2 Each academic year shall normally consist of two semesters as prescribed in the regulations.
- 4.3 During the four academic years (eight semesters) of the B.Sc. Hons in MLS Degree Programme, a student shall complete a minimum of 121 credits, covering all course units relevant to the Degree programme as prescribed by the Faculty as specified in Regulation 30.08.2021.
- 4.4 The programme of study shall be conducted in the medium of English.
- 4.5 The relevant course units and their syllabi shall be approved by the Senate on recommendation by the Faculty Board.

#### **5. Evaluation and Grading**

- 5.1 The method of evaluation shall be by one or more of the following methods and will be announced by the Faculty at the commencement of the relevant year.
  - (i) Mid Semester Examinations (Theory/Practical/Objective Structured Practical examinations (OSPE)/ Viva based practical)
  - (ii) End Semester Examinations (Theory/Practical/ OSPE / Directly Observed Practical Skills (DOPS)/ Viva-voce)
  - (iii) Research Project (Dissertation and Oral presentation)
  - (iv) Final Year Examination (Practical/DOPS/Portfolio evaluation/ Viva-voce)
- 5.2 Evaluation shall consist of mid and end-semester examinations for all course units of first three academic years. The fourth academic year evaluation shall consist of assessment of work-based training programme and will be held at the end of the fourth year as BSc MLS Final Year Examination.
- 5.3 The methods of assessment, distribution of weightage between mid-semester assessment components and end-semester examination of each course unit shall be prescribed by the B.Sc. Hons in MLS curriculum 2021.

- 5.4 The examinations prescribed by this By-Law and the Regulations thereunder shall be conducted by a Board of Examiners comprising the Dean of the Faculty of Allied Health Sciences, Head of the Department of Medical Laboratory Science and the Course Unit Coordinators of all relevant course units of the semester.
- 5.5 Grade Point Value (GPV) of each course unit will be calculated giving a weight of 70% to the end semester examination and 30% to the mid-semester examinations where applicable.
- 5.6 In order to be eligible to sit for the end-semester examination of each course unit,
- a) the student must have attended to/participated in all required mid-semester assessments and
  - b) the student shall maintain a 100% attendance separately for lectures, practical classes and tutorial classes of each course unit. Even with approved medical certificates a minimum attendance of 80% must be maintained in order to be eligible to sit for the examinations in the relevant course unit/s.
  - c) Those who do not fulfill these requirements shall be considered as repeat students in the next attempt.
- 5.7 The final evaluation of a course module shall be graded and be assigned a Grade Point Value (GPV) as follows.

<b>Marks (%)</b>	<b>Grades</b>	<b>GPV</b>
90 - 100	A <sup>+</sup>	4.0
80 – 89	A	4.0
75 – 79	A <sup>-</sup>	3.7
70 – 74	B <sup>+</sup>	3.3
65 – 69	B	3.0
60 – 64	B <sup>-</sup>	2.7
55 – 59	C <sup>+</sup>	2.3
50 – 54	C	2.0
45 – 49	C <sup>-</sup>	1.7
40 – 44	D <sup>+</sup>	1.3
30 – 39	D	1.0
00 – 29	E	0.0
-	E <sup>*</sup>	

Not applied/Absent without accepted reason(s)/Not Eligible	E*
Accepted Medical Certificate	MC
Results withheld	WH

- 5.8 A student who obtains a grade 'C' or above for a course unit shall be considered to have passed in that course unit.
- 5.9 A student who obtains grade 'C-' or lower for a course unit shall re-sit for the examination in a subsequent attempt within the stipulated time period as stated in 1.1.(f).
- 5.10 The maximum grade awarded for a repeat attempt shall be 'C' (Grade Point Value is 2.0). The final grade shall be decided based on the marks obtained in the end-semester examination only.
- 5.11 If a student fails to complete any part of the mid-semester assessment of a particular course unit due to medical or other acceptable reason, he/she may appeal within one week from the last date of assessment with supporting documents to the Dean for an academic concession. He/she must complete the mid-semester examination with the next immediate batch. His/her results of the particular end-semester examination will be held until completion of the immediate mid-semester examination. This is offered only for one attempt throughout the eight semesters for any course unit.
- 5.12 If a student fails to complete any part of the end-semester examination of a particular course unit due to medical or other acceptable reason, he/she may appeal within one week from the last date of examination with supporting documents to the Senior/Assistant Registrar of the Faculty of Allied Health Sciences for an academic concession. If the valid excuse is recommended by faculty board and accepted by the Senate, the immediate attempt of the student is considered as the first attempt.
- 5.13 A student who fails to submit the Assessment Portfolio and the logbook of the work-based training on or before the deadline (i.e. within two weeks of the completion of the work-based training), shall not be eligible to sit for the course units in the B.Sc. MLS Final Year Examination. Such students shall be allowed to sit the practical examination with the next batch of students after the submission of the portfolio and they will not be eligible for awarding classes.

## **6. Graduation Requirements**

- 6.1 The Grade Point Average (GPA) shall be calculated as described below at the end of the degree programme to determine the overall performance of a student. GPA is the arithmetic mean of the credit-weighted grade point values.

The GPA is determined by dividing the total credit-weighted Grade Point Value by the total number of credits.

$$\text{GPA} = \frac{\sum C_i \text{GPV}_i}{\sum C_i}$$

Where  $C_i$  and  $\text{GPV}_i$  are the number of credits and the Grade Point Values for  $i^{\text{th}}$  course unit respectively. GPA shall be reported to the second decimal point.

- 6.2 A student shall be eligible for the award of the Degree if he/she has
- obtained a minimum of 121 credits for B.Sc. Hons in MLS Degree from the course units as prescribed by the Regulations within the time period stipulated therein, and
  - obtained Grades C or better for all course units.
  - obtained Final Grade Point Average of 2.00 or above.
  - completed all the academic requirements obtaining grade C or above in all the examinations of course units of Development Programme for English and Proficiency in English (Level I to V).

## 7. Award of the Degree with a Class

A student, who has fulfilled all the stipulated conditions in section 6 shall be awarded a class if he/she fulfills the following additional requirements, within four academic years for a B.Sc. Hons in MLS Degree from the date of first registration, provided that it shall be within the power of the Senate to declare the eligibility for the award of a class on a subsequent occasion.

GPA	Class awarded
$\text{GPA} \geq 3.70$	First Class
$3.30 \leq \text{GPA} < 3.70$	Second Class (Upper division)
$3.00 \leq \text{GPA} < 3.30$	Second Class (Lower division)

- 7.1 The students who are not successful in two course units in the first attempt will still be eligible for a class, if he/she would pass (Grade C) the relevant course units in the immediately available re-sit attempt within four years.

## **8. Effective Date of the Degree**

- 8.1 The effective date of the degree shall be the date following the last day of the Final Year Examination for the respective batch of students. In the event that a student was referred in one or more course units, in the first, second, third, fourth, fifth, sixth end semesters or final year examination, the effective date of the degree shall be the last day of the end semester/Final Year examination in which the student has passed the referred course unit/s.
- 8.2 In case a student has an ongoing inquiry for an examination or disciplinary offenses conducted against him/her by the University, results of the relevant examination/s shall not be released until the inquiry is completed. In such situations, the effective date of the degree shall be determined by the Senate.

## **9. Award of the Diploma/Higher Diploma in Medical Laboratory Science (DMLS/HDMLS)**

The students who are unable to complete the degree within eight academic years of registration shall be awarded the Diploma in Medical Laboratory Science (SLQF level 3) or Higher Diploma in Medical Laboratory Science (SLQF level 4) based on the following criteria.

- 9.1 The student should apply for the above, before the elapse of one year from the completion of the eight-year period.
- 9.2 A student who has passed all first and second semester course units, and the course units MLS Clinical Biochemistry I & II and MLS Basic & Applied Haematology shall be awarded Diploma in Medical Laboratory Science (DMLS).
- 9.3 A student who has passed all first and second semester course units and the course units of Basic & Applied Haematology, Basic Bacteriology & Immunology, Basic Bacteriological Techniques, Systemic Bacteriology, Diagnostic Bacteriology, Mycology & Virology, General Pathology, Cytopathology & Cytotechnology, Histopathology, Clinical Biochemistry I & II will be awarded Higher Diploma in Medical Laboratory Science (HDMLS). They are not allowed to apply for DMLS.
- 9.4 Students who are successful at the BSc MLS Final Year Examination are not eligible to apply for either DMLS or HDMLS.
- 9.5 In order to apply and be eligible for DMLS or HDMLS, students shall complete the work-based training and complete the research project, with or without success at the examination for these components.

## **10. Regulations**

- 10.1 This By-Law may be revised or amended from time to time when necessary.
- 10.2 Rules and regulations made under this By-Law may be amended or approved by the Senate independently of the By-Law.



- 10.3 All other common rules and regulations applicable to universities in Sri Lanka and to the University of Ruhuna in particular are also applicable to students registered for these programmes.

## **11. General Conditions**

This By-Law will be effective from the batch of students who admitted to the academic year 2019/2020. (2019/2020 intake)

## **12. Interpretations**

12.1 In this By-Law unless the context otherwise requires

“University” means the University of Ruhuna, Sri Lanka as established by Gazette Notification no.281/07 dated 24.1.1984.

“Council” means the Council of the University of Ruhuna, constituted by University Act No.16 of 1978 and amendments thereof.

“Senate” means the Senate of the University of Ruhuna, constituted by University Act No.16 of 1978 and amendments thereof.

“Faculty of Allied Health Sciences” or “Faculty” means the Faculty of Allied Health Sciences, University of Ruhuna.

“Faculty Board” means the Faculty Board of the Faculty of Allied Health Sciences, University of Ruhuna.

“Dean” means the Dean of the Faculty of Allied Health Sciences, University of Ruhuna.

Any question regarding the interpretation of this by-law shall be referred to the Council whose decisions thereon shall be final and conclusive.

## **4.10. Code of conduct at work-based training for Medical Laboratory Science students**

### **Work-based Training**

No student shall change the work-based training appointment allocated to him/her without the prior permission of the supervisor and the Head of the Department.

### **Attendance and Punctuality**

Attendance at work-based training is compulsory. The student should obtain prior leave from the supervisor and get his/her consent before he/she gets absent from laboratory work. The student should spend the full amount of time scheduled on the timetable in the laboratory/training center.

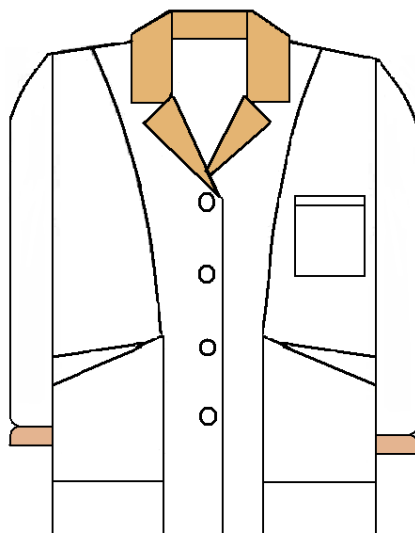
The student's dress should be neat and clean. The dress should be appropriate and decent. Students are recommended to wear covered shoes within the laboratory. Hair should be combed neatly. Male students should shave their beard and mustache fully. An overcoat must be worn by students during their work in the laboratory. The overcoat should be tailored according to the specifications given by the university.

In the corridors and public areas of the hospital and the other training centers, the students should not talk loudly and should not walk obstructing the corridors.

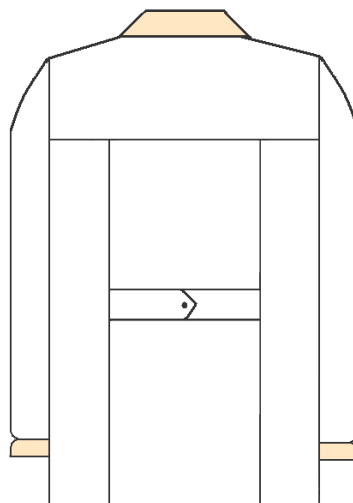
### **Dress code**

#### **Design for the Overcoat**

##### **a) Front view**



##### **(b) Back view**



- Length of the overcoat should be 3/4 inches below the knee level.
- Length of the sleeve should be up to the level of the wrist.
- Length of the colour band at the end of the sleeves should be 2 inches.
- End of the sleeve should have an elastic band of 2 inches.
- Width of the collar should be 2 inches.
- Width of the back belt should be 2 inches.
- Size of the chest pocket; width 5 inches, height 6 inches.
- Size of the waist pockets; width 8 inches, height 8 inches.

Dress and appearance at all times should be appropriate and conform to the profession. It is strongly recommended that students should be clean, neat and tidy in their appearance. Males should wear longs with shirt and covered shoes. Hair should be neatly combed. Male students should shave their beard and mustache fully. Students should wear the appropriate name tags during their clinical work. Wearing of specially designed overcoats is desirable.

#### **Laboratory/Hospital Records**

Strict confidentiality should be maintained with regard to the information obtained from patients' records or reports. The student should not remove any patient record/report available in the laboratory.

#### **Laboratory Equipment**

Student should use all laboratory equipment with utmost care. Accidental breakages of such equipment should be brought to the immediate notice of the supervisor.

#### **Communicable Diseases**

Students who are suffering from a communicable disease should not attend academic work and should inform the University Medical Officer or a person appointed by the faculty to act in that capacity. In addition, they should inform the supervisor and the Course Coordinator.

## **CHAPTER 5**

### **Department of Nursing**

#### **5.1. Introduction**

The Department of Nursing is presently situated within the premises of Teaching Hospital Mahamodara. The present annual intake for the BSc Honours in Nursing degree programme is approximately 200 students. Teaching Hospital Karapitiya is also located in close proximity. The department has several lecture halls, tutorial rooms, library and skills laboratory for the nursing students.

#### **5.2. Degree offered by the Department**

The Department of Nursing, FAHS, University of Ruhuna awards a Bachelor of Science Honours in Nursing (BSc Honours in Nursing), degree for those who successfully complete the degree programme and pass the stipulated examinations. It was started as a full-time four-year degree programme in the year 2008.

The Bachelor of Science Honours in Nursing degree designed to equip nurse practitioners with competencies in providing safe and effective nursing care of high standard in a variety of settings. The curriculum provides a sound scientific and humanistic foundation for nursing practice enabling the undergraduates to develop competencies necessary for the delivery of nursing care related to prevention and cure of diseases, maintenance, rehabilitation and promotion of health.

Apart from being sensitive and caring towards their clients, graduates of this programme will be able to articulate the nurses' role to other disciplines in health care. The programme will also introduce nursing research and evidence-based nursing practice at an early stage of the programme. Emphasis will be placed on developing critical and reflective thinking, problem solving and social skills of the students, and also skills to address professional, moral and ethical issues. The programme is designed to further encourage the students to acquire knowledge and insight through self- directed learning and innovative approaches.

#### **5.3. Vision and Mission of the Department**

The vision of the Department of Nursing is to be the leading center of excellence in the field of nursing.

The mission of the Department of Nursing is to produce intellectually and professionally competent nursing graduates to meet the emerging health care needs of local and international community with special emphasis on the social, economic and cultural needs of Sri Lanka.

#### **5.4. Research areas of the Department**

Current researches carried out by the members of the Department of Nursing are related to the following fields;

- Nursing education
- Health promotion and disease prevention
- Palliative care
- Rehabilitation
- Geriatric care
- Women's health
- Child and adolescent's health
- Quality of life
- Nursing care quality
- Musculoskeletal disorders
- Addiction
- Psychological and psychiatric nursing
- Neuro-psychiatry
- Non-communicable disease
- Nutrition

The research projects are conducted in collaboration with academic staff members of the Faculty of Medicine and other universities locally and internationally and annually a considerable number of valuable research publications and communications are made.

All Nursing students are supposed to conduct an individual research project during the 1<sup>st</sup> semester of their final year under the supervision of the academic staff members. Six credits are allocated for the research project and it is evaluated by a project report (dissertation) and presentations.

In addition, Department of Nursing has research collaboration with the Regional Director of Health Services office, Ministry of Health of Southern Province focused on community health issues.

## 5.5. Academic staff of the Department

<b>Head</b>
Dr. B.I. Wickramarachchi, <i>Dip. Nursing, (COL - NTS), Post Basic Dip. Nursing (PBCN), BSc Nursing (OUSL), MPhil (RUH), PhD (Malaysia)</i>
<b>Senior Lecturers:</b>
Prof. I. Kotapola, <i>BDS (PDN), PhD (Japan)</i> Ms. S.M.E.B. Weeratunga, <i>Dip. Nursing (SJP - NTS), BSc Nursing (OUSL), MPhil (RUH)</i> Ms. K.K.P.M.K. De Silva, <i>Dip. Nursing (Galle - NTS), BSc Nursing (OUSL), MPhil (RUH)</i> Ms. M.W.K. Gamage, <i>BSc Nursing (SJP), MPhil (SJP)</i> Ms. H.J.H. Madhushanthi, <i>BSc Nursing (SJP), MPhil (SJP)</i> Dr. S.M.T.D. Sundarapperuma, <i>BSc Nursing (SJP), PhD (SJP)</i> Dr. R.H.M.P.N. Rathnayake, <i>BSc Nursing (SJP), PhD (RUH)</i> Mr. T.U.W. Abeygunasekara, <i>BSc Nursing (PDN), MPhil (RUH)</i> Ms. A.D.S.S. Karunanayaka, <i>BSc Nursing (SJP), MPhil (RUH)</i> Dr. K.G.P. Nirmani, <i>BSc Nursing (SJP), PhD (Japan)</i>
<b>Lecturers:</b>
Ms. M.P.H.K. Dias, <i>B.Sc. (Hons) Nursing (UOR,SL) PG. Dip. in Health Development (UOC)(Reading)</i> Ms. P. Nanayakkara, <i>BSc (Hons) Nursing (UoP, SL)</i> Ms. K.J.M.D. Tharanga, <i>BSc (Hons) Nursing (USJP, SL), PG Dip in Ward Management &amp; Supervision</i> Ms. S.M.J.N. Samarakoon, <i>BSc (Hons) Physiotherapy (Administration Branch)</i>

## 5.6. Course structure

### 5.6.1. Duration of the course

This is a full-time course which runs over 8 semesters.

### 5.6.2. Medium of the instruction

The course is conducted in English medium.

### 5.6.3. Academic year

Each academic year consists of 2 semesters. In a semester, academic and clinical work runs over 15 weeks with a mid-semester break of 1 week. A written examination will be held within a period of 2 weeks, after completion of 15 weeks of

teaching in a given semester and 2 weeks of study leave. Clinical examination will be conducted at the end of the semester after giving 2 weeks clinical exposure to the students. The students will be given maximum of 2 weeks of vacation after clinical examination in each semester. Two weeks of holiday will be given to the students during the academic year one week for Sinhala/Tamil New year and Year-end/Christmas.

#### 5.6.4. General academic calendar

First semester	Week	Second semester	Week
Academic activities and clinical placement (1 <sup>st</sup> half)	8	Academic activities and clinical placement (1 <sup>st</sup> half)	8
Mid semester break	1	Mid semester break	1
Academic activities and clinical placement (2 <sup>nd</sup> half)	7	Academic activities and clinical placement (2 <sup>nd</sup> half)	7
Study leave	2	Study leave	2
End semester examination	2	End semester examination	2
Clinical placement (for exam preparation)	2	Clinical placement (for exam preparation)	2
Clinical examination	1	Clinical examination	1
Vacation	2	Vacation	2
University holidays	1	University holidays	1
Total	26	Total	26

#### 5.7. Course units offered by the Department for Bachelor of Science Honours in Nursing degree

Academic year-Semester	Course code	Course unit title	No. of credits
Year 1 - Semester 1	NUR 1112	Anatomy I	02
	NUR 1122	Physiology I	02
	NUR 1131	Biochemistry	01
	NUR 1143	Fundamentals of Nursing I	03
	NUR 1151	Health Promotion and Social Aspect in Nursing	01
	NUR 1161	Nursing Clinical Attachment I	01
Total			10
Year 1- Semester 2	NUR 1211	Anatomy II	01
	NUR 1222	Physiology II	02
	NUR 1232	Fundamentals of Nursing II	02
	NUR 1242	Microbiology and Parasitology in Nursing	02
	NUR 1252	Pathology in Nursing	02
	NUR 1261	Nutrition in Nursing	01

	NUR 1274	Nursing Clinical Attachment II	04
<b>Total</b>			<b>14</b>
Year 2 – semester 1	NUR 2111	Pharmacology in Nursing I	01
	NUR 2123	Medical Nursing I	03
	NUR 2133	Surgical Nursing I	03
	NUR 2143	Psychiatry in Nursing (For theory – 1, for clinical placement – 2)	03
	NUR 2150	Communication Skills and Interpersonal Relationship	Pass/fail
	NUR 2161	Psychology in Nursing	01
	NUR 2175	Nursing Clinical Attachment III	05
<b>Total</b>			<b>16</b>
Year 2 - semester 2	NUR 2212	Pharmacology in Nursing II	02
	NUR 2221	Information Literacy in Nursing (Introduction to IT, Patient Database Management)	01
	NUR 2232	Pediatrics Nursing I	02
	NUR 2242	Gynecology and Obstetrics in Nursing I	02
	NUR 2252	Statistics and Epidemiology in Nursing	02
	NUR 2266	Nursing Clinical Attachment IV	06
<b>Total</b>			<b>15</b>
Year 3 - semester 1	NUR 3112	Fundamentals of Research in Nursing	02
	NUR 3124	Medical Nursing II	04
	NUR 3134	Surgical Nursing II	04
	NUR 3142	Community Health in Nursing (For theory – 1.0, for community training – 1.0)	02
	NUR 3157	Nursing Clinical Attachment V	07
<b>Total</b>			<b>19</b>
Year 3 - semester 2	NUR 4136	Research Project (Proposal writing)	-
	NUR 3213	Pediatrics in Nursing II	03
	NUR 3223	Gynecology and Obstetrics in Nursing II	03
	NUR 3231	Dietetics in Nursing	01
	NUR 3247	Nursing Clinical Attachment VI	07
<b>Total</b>			<b>14</b>
Year 4 - semester 1	NUR 4112	Leadership and Management in Nursing	02
	NUR 4123	Professional Development in Nursing	03



		(Nursing Ethics, Trends and Issues and Legal Aspects in Nursing)		
	NUR 4136	Research Project (Data Collection, Analysis, Thesis Writing, Presentation and Defense)	06	
	NUR 4145	Nursing Elective Appointment	05	
Total			16	
Year 4 - semester 2	NUR 4214	Professorial Clinical Appointment in Medical Nursing	04	
	NUR 4224	Professorial Clinical Appointment in Surgical Nursing	04	
	NUR 4234	Professorial Clinical Appointment in Pediatric Nursing	04	
	NUR 4244	Professorial Clinical Appointment in Gynecological and Obstetric Nursing/Trauma and Emergency Nursing	04	
Total			16	
Total credits for the degree			120	
Compulsory NGPA Course Units				
Year	Semester	Course Units	Course Unit Code	Credits
1	1	Development Programme for English	AH1010	0
1	2	Proficiency in English Level I	AH1212	2
2	1	Proficiency in English Level II	AH2112	2
2	2	Proficiency in English Level III	AH2212	2
3	1	Proficiency in English Level IV	AH3112	2
3	2	Proficiency in English Level V	AH3212	2
<u>Identification of course unit</u> The code consists of four digits prefixed by a set of three letters as described below. Three letters NUR (prefix) for Nursing degree programme First digit Academic year (1, 2, 3, 4) Second digit Semester of each academic year (1, 2) Third digit Course unit number of each semester Fourth digit Allocated credit value				

## **5.8. Course unit description for Bachelor of Science Honours in Nursing degree**

### **NUR 1112 - Anatomy I**

Structure and function of cell, organization of the body for function, structure of heart and circulation, respiratory system, alimentary system and urinary system

### **NUR 1122 - Physiology I**

Introduction to physiology and tissue fluid formation, blood and immunology, cardiovascular system, respiratory system, gastro-intestinal system

### **NUR 1131 – Biochemistry**

Normal biochemical processes in the human body, metabolic abnormalities, principles of diagnostic and therapeutic procedures of metabolic abnormalities and deviations from norms related to biochemical and nutritional status

### **NUR 1143 – Fundamentals of Nursing I**

Introduction to nursing, history of nursing, health and illness, communication skills in nursing, maintaining safe environment, maintaining personal hygiene, promoting comfort, monitoring vital signs, heat and cold application, admission, discharge and transfer, eliminatory needs of the patient, food and fluid consumption, assisting in breathing, activities and exercises

### **NUR 1151 – Health promotion and Social aspects in Nursing**

Health promotion - Concepts of primary, secondary and tertiary prevention, health promotion strategies, monitoring and evaluation, assessment of health in physical, mental, social, and environmental dimensions, multi-sector-holistic approach in promoting health in the community

Social aspect - Basic concepts of sociology, social structure, man and society, socialization, urbanization and social factors related to health and illness, social and cultural anthropology

### **NUR 1161 – Nursing Clinical Attachment I**

<b>Clinical placement</b>	<b>Number of weeks</b>
Medical wards	1
Surgical wards	1

### **NUR 1211 – Anatomy II**

Structure and function of reproductive system, nervous system, endocrine system, musculoskeletal system, skin, immune system, basic concepts in genetics, and understanding of common congenital abnormalities

### **NUR 1222 – Physiology II**

Renal system, endocrine system, reproductive system, central nervous system, and special senses

### **NUR 1232 – Fundamentals of Nursing II**

Asepsis, nursing process, physical examination, specimen collection and diagnostic studies, administering medication, care of special needs, care of terminally ill and dying patient, expressing sexuality, first aid and bandaging

### **NUR 1242 – Microbiology and Parasitology in Nursing**

Microbiology - Basic microbiology, immunology and vaccination, controlling microorganisms in hospitals, sterilization and disinfection and clinical microbiology

Parasitology - Human parasitic diseases and life cycles and modes of transmission of parasites found in Sri Lanka and pathogenesis, laboratory diagnosis, treatment, prevention, and control of the diseases

### **NUR 1252 – Pathology in Nursing**

Basics of general pathology, common diseases of organ systems including etiology, pathogenesis, morphological changes, functional derangement and their clinical significance and the basics of histopathology and hematology

### **NUR 1261 – Nutrition in Nursing**

Principles and practices of nutrition, skills in improving the nutritional status of an individual and the community

### **NUR 1274 – Nursing clinical attachment II**

<b>Clinical placement</b>	<b>Number of weeks</b>
Medical wards	4
Surgical wards	4

### **NUR 2111 – Pharmacology in Nursing I**

Mechanisms of drug action, pharmacokinetics, therapeutic and adverse effects of drugs commonly used in clinical setting, legal and ethical aspects of drug administration, calculation of the drug dosages, storage and safety of drugs

### **NUR 2123 – Medical Nursing I**

Fluid and electrolyte balance, pain management, medical conditions of cardiovascular, respiratory, gastrointestinal, genitourinary and dermatological disorders

### **NUR 2133 – Surgical Nursing I**

Peri-operative nursing care, oncology care, surgical conditions of respiratory, gastrointestinal, cardiovascular and dermatological disorders and wound management

### **NUR 2143 – Psychiatry in Nursing**

Review of anatomy, physiology and biochemistry related to psychiatry, introduction to basic psychology and terminology used in psychiatry, history of psychiatry and present trends, psychiatric services available and future plans in Sri Lanka, stress and stress management, effective communication skills and professional relationship, principles of psychiatric nursing, and legal and ethical issues related to psychiatry

### **NUR 2150 – Communication Skills and Interpersonal Relationship in Nursing**

Theory and skill lab practice and focuses on introduction to educational psychology and learning theories, domains of learning objectives, principles of learning, learning – teaching strategies, significance of health education in nursing and selection and preparation of audio-visual aids

### **NUR 2161 – Psychology in Nursing**

Scientific study of the behavior and mental processes of human beings, basic concepts of psychology, growth and development, higher mental processes, individual differences, motivation, social and cultural aspects of human behavior

### **NUR 2175 – Nursing Clinical Attachment III**

<b>Clinical placement</b>	<b>Number of weeks</b>
Chest unit or chest hospital	1
Cardiology unit	1
Renal and Dialysis unit	1

Cardiothoracic unit	1
Rheumatology unit	1
Dermatology unit	1
Outpatient Department (OPD)- Injection room, Rabies unit, Dressing room, clinics	4
Radiology and Endoscopy unit	1
National institute of mental health (NIMH)	4

### **NUR 2212 - Pharmacology in Nursing II**

Different drug groups relevant to different systems in the body

### **NUR 2221 - Information Literacy in Nursing**

Introduction to information technology and management of patient database, create a patient database using an appropriate data storage program in a computer and to update such data bases, retrieve the information when necessary for patient treatment and management

### **NUR 2232 - Pediatric Nursing I**

Nurse's role in child health nursing, needs of a child at different developmental stages during illness/ wellness, growth, development and needs of a normal child

### **NUR 2242 - Gynecology and Obstetrics in Nursing I**

Perspectives of maternity health nursing and the nurse's role in maternal care, preparation of a woman for motherhood, normal pregnancy, normal labour and delivery, care of new-born and mother, and normal puerperium, the female reproductive system, assessment of a gynecological patient, menstrual cycle and menstrual conditions and subfertility

### **NUR 2252 - Statistics and Epidemiology in Nursing**

Statistics - Different methods of summarizing and presenting data and application of them in nursing and appropriate statistical methods, principles of sampling and sampling methods and other statistical parameters

Epidemiology - Basic epidemiological concepts and their application, epidemiological techniques to examine frequency, determinants and distribution of diseases, ill health conditions and health care services related to nursing

## **NUR 2266 - Nursing Clinical Attachment IV**

<b>Clinical placement</b>	<b>Number of weeks</b>
Central sterilization supply division (CSSD) and Blood bank	1
Ear nose and throat (ENT) unit	1
Ophthalmology unit	1
Gynecology and Obstetrics wards, Labour Rooms (for female students) Trauma and accident service (for male students)	4
Trauma and accident service unit	1
Pediatric medical and surgical wards, neonatal intensive care unit (NICU) and premature baby unit (PBU)	4

## **NUR 3112 - Fundamentals of Research in Nursing**

Research paradigms and underpinning philosophy of science, importance of knowledge and its experience, different types of research designs, critical evaluation of existing nursing related research literature

## **NUR 3124 – Medical Nursing II**

Medical conditions of reproductive, nervous, musculoskeletal, endocrine, hematological disorders and medical conditions of the ear, nose and throat

## **NUR 3134 – Surgical Nursing II**

Nursing care for the patients with surgical conditions of renal, urinary and male reproductive systems, female breast, nervous, musculoskeletal, endocrine and hematological systems, the surgical conditions of the eye, ear, nose and throat, trauma and surgical emergencies and geriatric surgical conditions

## **NUR 3142 – Community Health Nursing**

Overview of the community care in Sri Lanka, activities in the antenatal and child welfare clinic, well women clinics, school health, environmental health, food water and sanitation, occupational health, health and social services and health promotion activities in the community

### **NUR 3157 – Nursing Clinical Attachment V**

<b>Clinical placement</b>	<b>Number of weeks</b>
Medical wards	1
Surgical wards	1
Neurology unit	1
Neuro-Surgical unit	1
Orthopedic unit	1
Oncology unit	1
Sexually transmitted disease (STD) unit	1
Urology	1
Operating theater	3
Intensive care unit (ICU)	3

### **NUR 3213 - Pediatric Nursing II**

Etiology, signs and symptoms, pathophysiology, preventive and current diagnostic measures and curative treatments for the minor and major childhood diseases and disorders

### **NUR 3223 - Gynecology and Obstetrics Nursing II**

The abnormalities of early and late pregnancies, pregnancies require special needs, special procedures in obstetrics, obstetric emergencies and special situations in maternal care and complications of labor, infections and inflammations of the female genital tract, problems resulting from relaxed pelvic muscles, gynecologic tumors and special considerations in gynecological nursing

### **NUR 3231 - Dietetics in Nursing**

Plan meals containing adequate amounts of all nutrients for all age groups and plan therapeutic diets for different disease conditions according to the, socio-economic and cultural patterns and the activity level of the individual, family and community, practices of suitable cookery methods necessarily in the preparation of the healthy diet

## **NUR 3247 - Nursing Clinical Attachment VI**

<b>Clinical placement</b>	<b>Number of weeks</b>
Medical wards	2
Surgical wards	2
Gynecology and Obstetrics wards, Labour Rooms (for female students) Trauma and accident service (for male students)	4
Trauma and accident service unit	1
Pediatric medical and surgical wards, NICU and PBU	5

## **NUR 4112 - Leadership and Management in Nursing**

Role of a nursing administrator, principles of general management, hospital administration and nursing administration, principles of administration and their application by the different level of nurse managers, nursing services of the unit/ward, principles of supervision including philosophy, purpose, principles and methods of supervising plans, clinical supervision of students, and responsibilities of the head nurse in the clinical settings, role of a nurse manager in clinical teaching in nursing and evaluation of the student nurses

## **NUR 4123 - Professional Development in Nursing**

This course unit includes trends and issues in nursing, nursing ethics and legal aspects in nursing.

### **Trends in Nursing**

Development of nursing as a profession, adjustment to clinical/ professional setting, professional organizations related to nursing and health, trends in nursing profession, career opportunities in nursing, image of nursing, legal aspect of nursing, quality assurance in nursing practice

### **Ethics in Nursing**

Value formation and value conflict, the discipline of ethics, ethical concepts for nursing practice, standards for ethical behavior, ethical analysis and decision making in nursing practice, ethical responsibilities of the nursing

### **Legal aspects in Nursing**

Introduction to forensic medical nursing, medico legal framework in Sri Lanka, medico-legal investigations, injuries and assault, human rights and mental disorders, toxicology



### **NUR 4136 - Research Project**

The project provides evidence that the graduate student has engaged in scholarly and creative work in his or her profession.

Students will learn skills in library searching and information technology, skills necessary to develop a research proposal, applications of the principles of literature reviewing, principles of reporting and disseminating research findings, develop a research proposal with the help of supervisors and submit seeking ethical clearance.

Students are required to complete the research project they obtained ethical clearance and write a dissertation in order to meet the program's research requirement as a criterion to be eligible for graduation. The project is expected to address a problem relevant to nursing. Within this part of the research project, the student will engage in conducting the research including data collection, analysis and writing up dissertation which will involve the same level challenge and high standard as a thesis but will be approximately half the scale (40,000 words maximum). It should represent a contribution to knowledge, showing evidence of originality, critical insight and the capacity to carry out independent research. It will involve the introduction and evaluation of an innovative intervention in an area of clinical or nurse education practice.

### **NUR 4145 - Nursing Elective Appointment**

Nursing elective appointment has been developed through a partnership approach with service users/carers and stakeholders. It aims to respond to current policy drives and in turn, provides the future workforce with health management teams that are compassionate, highly skilled, family centered, quality driven and able to work in a flexible way across diverse practice settings. By the end of proposed training, it is anticipated that students are introduced to a diverse range of nursing and other professional roles within the hospital setting. It includes 12 weeks of full-time clinical placement with 12-night shifts.

Elective training will mainly consist of learning by practicing in a clinical setting under supervision and to conduct a case analysis by individual student. Bedside teaching and group teaching will be conducted during the clinical practice.

One of the following elective nursing areas can be selected by the students according to their preference and availability of opportunities in the specific specializations.

Midwifery Nursing (only for female students)

Psychiatric Nursing

Trauma and Emergency care Nursing

Cardiothoracic Nursing  
 Cardiology Nursing  
 Pediatric critical care Nursing  
 Renal Nursing  
 Theater Nursing  
 Oncology Nursing  
 Neurology Nursing  
 Intensive Care Nursing  
 Gerontological Nursing \*

\*For Gerontological Nursing elective will be taken place at hospital setting of Japan which is supervised by Asia Development Centers Association (ADCA) as per the MOA between University of Ruhuna and ADCA. The students who are willing to take part in Gerontological Nursing will be selected based on the academic performance. The number of students requested by the ADCA will be given the opportunity.

**NUR 4214 - Professorial Clinical Appointment in Medical Nursing**  
**NUR 4224 - Professorial Clinical Appointment in Surgical Nursing**  
**NUR 4234 - Professorial Clinical Appointment in Pediatric Nursing**  
**NUR 4244 - Professorial Clinical Appointment in Gynecological and Obstetric Nursing/Trauma and Emergency Nursing**

This increases student knowledge, skills and confidence in providing nursing care to surgical, medical, obstetric and pediatric patients, strengthen skills in preventive, curative and rehabilitative aspects and health promotion in nursing

The student will have the opportunity to adapt to the Sri Lankan health care team and act as a 'shadow nurse' in the clinical setting. They are given further exposure on advanced clinical nursing experience under the supervision of clinical instructors in the following manner.

<b>Clinical placement</b>	<b>Number of weeks</b>
Professorial Clinical Appointment in Medical Nursing	5
Professorial Clinical Appointment in Surgical Nursing	5
Professorial Clinical Appointment in Pediatric Nursing	5
Professorial Clinical Appointment in Gynecological and Obstetric Nursing/Trauma and Emergency Nursing	5

### **5.9. By-Laws of the Bachelor of Science Honours in Nursing degree**

By-Laws for the Bachelor of Science Honours in Nursing Degree were originally approved by the Senate of the University of Ruhuna in its 234<sup>th</sup> meeting held on 08<sup>th</sup> October 2008. These by-laws will be subjected further revision.

1. These by-laws may be cited as the Bachelor of Science Honours in Nursing degree by-laws.
2. Subject to these By-Laws a student may be admitted to the degree of Bachelor of Science in Nursing if he/she;
  - a. has been duly 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 8 semesters for internal students or 4 semesters as a lateral entrant, and
  - c. has completed to the satisfaction of the Vice Chancellor, courses of study as prescribed by these By-Laws and Rules and Regulations made there under, and
  - d. has completed 120 credits in BSc nursing degree that will be covered in 8 semesters over a period of not less than 3 years and 9 months and
  - e. has paid 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.
  - g. has achieved the English proficiency of University Test of English Language for Academic Purposes (UTEL) level 5 or equivalent, and
  - h. has fulfilled any other conditions or requirements as may be prescribed by the University.
  - i. has no on-going disciplinary inquiry conducted by the University.
  - j. has no on-going inquiry conducted by the University on examination offences.
3. The examinations leading to the Degree of Bachelor of Science Honors in Nursing shall be;
  - a. end of semester I in year 1,
  - b. end of semester II in year 1,
  - c. end of semester III in year 2,
  - d. end of semester IV in year 2,
  - e. end of semester V in year 3,
  - f. end of semester VI in year 3,
  - g. end of semester VII in year 4 and
  - h. end of semester VIII year 4 respectively.
4. The course units, courses of study and syllabi for the examinations leading to the Degree of Bachelor of Science Honors in Nursing, respectively and the

- number of papers, oral examinations and other forms of evaluation in each subject shall be prescribed by the Regulations made by the Faculty of Allied Health Sciences (here in-after mentioned as Faculty Board), and then approved by the Senate of the University of Ruhuna.
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 Science in Nursing on the first occasion at which he/she is required to do so provided that he/she has fulfilled the By-Law No 8 and 9.
  7. A student may be granted permission to postpone a scheduled attempt on the basis of a valid excuse<sup>1</sup> submitted and accepted by the Faculty Board 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. Students who are unable to sit an examination due to ill health must ensure that a relevant medical certificate is submitted within one week to the Assistant Registrar.
  8.
    - a. The candidate should have above 80% attendance at lectures, tutorials and practical sessions of a particular subject, to be eligible to sit for the theory component of the subject.
    - b. The candidate should have 100% attendance with satisfactory completion of the assigned number of skills/ procedures of clinical nursing experiences for a particular subject, to be eligible to sit for the clinical component of the subject.
  9.
    - a. If the absence for lectures, tutorials and practical sessions are covered by a valid excuse acceptable to the Faculty Board, the candidate will be eligible to sit the theory component of the examination if he/she has achieved minimum of 65% of attendance.

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**<sup>1</sup>Valid excuses**

1. Medical certificate acceptable to the Faculty Board. Person/ Institution entitled to issue valid medical certificates for the above purposes,
  - i. University Medical officer of the Faculty of Medicine.
  - ii. A consultant in any government hospital.
  - iii. A District Medical Officer (DMO) in a government hospital.
  - iv. A medical certificate issued by a Teaching/ General/ Base hospital.Medical certificate from medical officers or institutions other than those listed will NOT BE ACCEPTED.
2. Death of an immediate family member (parents/ brother/ sister/ If married spouse, children) one week prior to the examination or during examination the death certificate should be submitted for the approval of the Senate.
3. Any acceptable reason for the Faculty Board and the Senate.

- b. If the absence for clinical nursing appointments is covered by a valid excuse acceptable to the Faculty Board, the candidate will be eligible to sit the clinical component of the examination if he/she achieved required 100% attendance and assigned number of skills/ procedures with an additional training period with/without expense of his/her study leave period.
- 10. 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.
- 11. If the candidate fails to sit for a subject without a valid excuse acceptable to the Faculty Board, the candidate should take the relevant subject in the next available examination as his/ her second attempt even though he/she can complete the other subjects of the examination.
- 12. Should a student not be able to take the examination at the first scheduled attempt as a result of his/her being repeated in a clinical placement due to valid excuse, he/she has to sit the next available examination.
- 13. If the candidate is not eligible to sit for a scheduled examination due to poor attendance in a clinical placement or due to incomplete clinical nursing experience records, not due to a valid excuse, his/her next attempt will be considered as the repeat attempt.
- 14. An overall average of 50% marks in a subject shall be considered as the pass mark in that subject, provided that a minimum of 50% of clinical practical marks and a minimum of 40% of theory marks is obtained.
- 15. In a combined theory paper constituting two or more number of subjects, the candidate should obtain a minimum of 40% marks for each subject unit and an overall average of 50% marks to be considered to have passed in that combined paper.
- 16. If a candidate obtains less than 25% for one subject unit in a combined paper, the candidate will be considered as referred in the whole combined paper.
- 17. If any student has failed the evaluations of clinical component, in the repeat attempt, the student has to resubmit/do the assignment or care/case study in an improved format and sit for the theory component of the evaluation as well.
- 18. If any student has failed the evaluations/not eligible for the evaluation of community-based training, the student has to repeat the training and resubmit the assignment, do the presentation and sit for the theory component of the evaluation as well in the repeat attempt.
- 19. The assignments, care studies and thesis (research projects) required for relevant subjects should be submitted on due dates and late submission will be deducted 2 marks per each day.
- 20. A student is considered to be eligible for the award of the degree when the student (a) passes all the end semester examinations and the final examination (b) passes the qualifying examination in English language.

21. Lateral entrants: Duration of the proper academic programme is two calendar years. Students should earn all 120 credits during 2 years by sitting for all the examinations conducted during 4 years for internal students. They are exempted from the clinical training, but they have to take the clinical examinations with the internal students and earn the credits. In addition, they have to pass the qualifying examination in University Test for English Language (UTEL level 5).
22. Overall GPA is calculated using the GP values obtained for end semester examinations within four year.
- 23.
- a. A candidate who passes the final examination and obtains an overall average mark on or above "A" shall be eligible to get GPA of 4.0
  - b. A candidate who passes the final examination and obtains an overall average mark of "A-" shall be eligible to get GPA of 3.7
  - c. A candidate who passes the final examination and obtains an overall average mark of "B+" shall be eligible to get GPA of 3.3
  - d. A candidate who passes the final examination and obtains an overall average mark of "B" shall be eligible to get GPA of 3.0
  - e. A candidate who passes the final examination and obtains an overall average mark of "B-" shall be eligible to get GPA of 2.7
  - f. A candidate who passes the final examination and obtains an overall average mark of "C+" shall be eligible to get GPA of 2.3
  - g. A candidate who passes the final examination and obtains an overall average mark of "C" shall be eligible to get GPA of 2.0
- 24.
- a. A candidate who passes the whole examinations and obtains GPA of 3.7 and above shall be eligible for First Class.
  - b. A candidate who passes the whole examinations and obtains GPA of 3.3 shall be eligible for Second Class Upper Division.
  - c. A candidate who passes the whole examinations and obtains GPA of 3.0 shall be eligible for Second Class Lower Division.
  - d. A candidate who passes the whole examinations and obtains GPA of 2.0 shall be eligible to successfully completed nursing Degree.

#### **5.10. Code of conduct for students at clinical training for Nursing students**

##### **Clinical groups and appointments**

No student shall change the group or work placement/ appointment allocated to him/her without the prior permission of the clinical coordinator. Students are reminded that they have to conform to the rules of the medical institutions that they work in. Students should also be particularly mindful of the human rights of patients and be aware that students have no inherent right to interrogate or examine patients.

Objectives are given to students to be achieved during each clinical placement. Clinical skills development will be facilitated by simulated practice in a nursing skills laboratory. Students should engage in clinical training under the supervision of clinical facilitators. Nursing Clinical Experience Record book is provided to record the clinical experiences and it should be completed by the students during their clinical placements.

In the corridors and public areas of the hospital, the student should not talk loudly and should not walk obstructing the corridors. On entering the wards, the students should identify themselves to the ward staff and obtain permission to perform ward procedures.

### **Attendance and Punctuality**

Attendance at clinical work is compulsory. All students are expected to attend clinical attachments on time and 100% attendance is mandatory for clinical attachments. Students who do not fulfill this requirement will not be allowed to sit for the clinical examination. Student should be present in the allocated clinical unit 5 minutes before the assigned time and should leave the clinical unit 5 minutes after the allocated time. The attendance will be calculated at the end of each semester.

Students should inform to clinical coordinator before 7.00 am if they are not able to attend to clinical placement. Messages after 7.00 am is not considered, and only those informed days can be covered during the attachment period with permission from the clinical coordinator. If student do not attend clinical training without prior permission, student will have to undergo two days training for each absent day.

### **Dress Code**

Student should wear the uniform prescribed by the Ministry of Health. Dress and appearance at all times should be appropriate and conform to the profession. It is strongly recommended that students should be clean, neat and tidy in their appearance. Hair should be neatly combed. Male students should shave their beard and mustache fully. Students should wear the appropriate name tags during their clinical work.

### **Conduct with the patients**

The students should obtain consent of the patient/ guardian before examining a patient. All the nursing activities should be performed under the supervision of clinical facilitator.

Students should not disturb the patient if he/she is sleep, while having a meal or if he/she is uncomfortable. In the examination of a patient of the opposite sex, it is

desirable to have a member of the same sex as a chaperon. Expose only the part that has to be examined and have adequate screening around the patient.

Do not examine patients during visiting hours. The student should introduce him/herself to the patient and address the patient with respect. The student should be courteous and considerate to the patient. No student should give money, tobacco, illegal drugs and alcohol to any patient.

The student shall maintain strict professional secrecy with regard to information obtained from the patient. The relationship of the student with patient's visitors should be at a professional level.

### **Hospital Records and equipment**

The student should not remove hospital records, X-rays, ECG or laboratory reports of patients. Strict confidentiality should be maintained with regard to the information obtained from records.

Student should use hospital equipment like sphygmomanometers, glassware, thermometers etc. with utmost care. Accidental breakages of such equipment should be brought to the immediate notice of the ward staff.

### **Maintaining students' inventory**

Nursing students should take the responsibility of maintaining students' inventory that is handed over to them by the nursing sister of the ward/unit during their clinical placements.

### **Out of bound period**

From time to time, the hospital will be declared out of bound to clinical students on account of clinical examinations. During such periods, students are expected to keep away from the wards. However, if a student wishes to visit a near relative in the ward, he/she shall visit the ward during visiting hours after obtaining prior permission from the Clinical Coordinator.

### **Communicable Diseases**

Students who are suffering from a communicable disease should not visit the wards. If in doubt, they should consult the University Medical Officer or a person appointed by the faculty to act in that capacity. In addition, they should inform the Clinical Coordinator.

### **Permission for medical treatments**

In case of any illness during the clinical placements, students should obtain the permission from ward sister or nurse in charge in writing in the Health Record Book provided to the students by Department of Nursing.



## **CHAPTER 6**

### **Department of Pharmacy**

#### **6.1. Introduction**

The Department of Pharmacy is situated at Uluvitike in Galle. The present annual intake for the Bachelor of Pharmacy Honours degree programme is 61 students. The department has several lecture halls, tutorial rooms, an IT room and well-equipped laboratories that are dedicated for the pharmacy students.

#### **6.2. Degree offered by the Department**

The Bachelor of Pharmacy Honours (BPharm Honours) degree programme was commenced in the year 2010 as a full-time programme which runs for four years. The Department of Pharmacy awards the Bachelor of Pharmacy Honours degree for those who successfully complete the degree programme and pass the stipulated examinations. The curriculum of the Bachelor of Pharmacy Honours degree offered by the Department of Pharmacy incorporates both the pharmacy practice and the pharmaceutical science aspects equally. The graduate who completes the course will be able to select the area of interest. The BPharm degree consists of 120 credits which include lectures, practical, tutorials, a research project and hospital, clinical, community, and industrial oriented training programmes. The degree programme will cover major topics including chemical, physical, pharmaceutical and pharmacological properties of medicines and the application of these in the practice of pharmacy. Practical experience in clinical settings including hospital and community pharmacy is emphasized in the Bachelor of Pharmacy Honours degree, particularly in the third and fourth years. This ensures that students are continually putting into practice the theory and hands-on skills they learn throughout the degree programme. The programme is designed to further encourage the graduates to acquire knowledge and insight through self-directed learning and motivate innovative approaches. The programme also aims to produce graduates who have highly developed analytical skills and leadership potential alongside sound clinical competence. Provisions of qualified pharmacists at degree level will enable a person to work in a hospital, community, industry, academic field, and regulatory environment efficiently maintaining international standards.

### **6.3. Vision and Mission of the Department**

The vision of the Department of Pharmacy is to be the leading center of excellence in the field of Pharmaceutical Sciences and Pharmacy Practice.

The mission of the Department of Pharmacy is to produce pharmacy graduates who provide safe, high quality commitment to patient-centered, evidence-based and collaborative pharmacy practice in order to improve the health of the communities in which they serve.

### **6.4. Research areas of the Department**

Current research interests of the academic staff are related to the following fields of Pharmacy Practice and Pharmaceutical Sciences.

Community Pharmacy

Hospital Pharmacy

Clinical Pharmacy

Pharmacology and Pharmacotherapeutics

Pharmacovigilance and Toxicology

Cancer therapy

Cosmeceuticals and Nutraceuticals

Pharmaceuticals

Pharmacognosy and Natural products

Drug synthesis

Molecular Genetics

Pharmacoeconomics

Pharmaceutical Management and Marketing

Pharmaceutical Microbiology

Quality Control

Research facilities are also offered to students who are seeking postgraduate qualifications such as MPhil and PhD Degrees in Pharmacy practice and Pharmaceutical sciences.

## 6.5. Academic staff of the Department

<b>Head</b>
Ms. V.M. Pathiraja, <i>B.Pharm (PDN), M.Phil in Clinical Pharmacology (PDN)</i>
<b>Senior lecturers</b>
Dr. A.S. Dissanayake, <i>BSc Chemistry Sp, (COL), PhD (USA), M.I. Chem. C</i> Dr. S.K. Hettihewa, <i>BSc Chemistry Sp, (SJP), MSc (UK), MPhil (PDN), PhD (NZ), M.I. Chem. C.</i> Dr. H.W.A.S. Subasinghe, <i>BSc Pharm (COL), PgD Education (COL), MPhil (RUH), PhD (UK)</i> Ms. K.A.K.D. Wijesekera, <i>BSc Chemistry Sp (SJP), MSc (CGI, Thailand), reading for PhD (AuS)</i> Ms. G.A.M. Prasadi, <i>B.Pharm (PDN), M.Phil in Community Health (PDN)</i>
<b>Lecturers</b>
Ms. P.W.D. Wasana, <i>BPharm (PDN), Reading for PhD (Thailand)</i> Ms. K.D.S.V. Karunanayaka, <i>BPharm (PDN), Reading for MPhil (RUH)</i> Ms. M. Jayasinghe, <i>B.Pharm (PDN), PgD Applied Organic Chemistry (COL), MBA (COL)</i> Ms. K.I.M. De Silva, <i>B.Pharm (PDN), MPhil in Molecular Biology (PDN)</i> Ms. L.L. Sandamali, <i>B.Pharm (RUH)</i> Ms. K W G K P Yasarathna, <i>B.Pharm. (SJP,), Reading for MPhil (SJP)</i> Dr. N.D.D. Silva, <i>B.Pharm (RUH), Ph.D. in Chemical Biology (CGI, Thailand)</i>

## 6.6. Course structure

### 6.6.1. Duration of the course

This is a full-time course which runs over four academic years (8 semesters).

### 6.6.2. Medium of the instruction

The course is conducted in English medium.

### 6.6.3. Academic year

Each academic year consists of 2 semesters which runs for 15 weeks each. A minimum of two weeks of study break is given before the end semester examination which will be held after completion of 15 weeks. The students will be given a minimum of 2 weeks of vacation after end semester examinations before starting the next semester. One week of holiday will be given to the students for Sinhala and Tamil New year.

#### 6.6.4. General academic calendar

First semester	Weeks	Second semester	Weeks
1 <sup>st</sup> half	08	1 <sup>st</sup> half	08
Mid semester break	01	Mid semester break	01
2 <sup>nd</sup> half	07	2 <sup>nd</sup> half	07
Study leave period	02	Study leave period	02
Exam period	06	Exam period	06
Vacation and Holidays	02	Vacation and Holidays	02
Total	<b>26</b>	Total	<b>26</b>

#### 6.7. Course units offered by the Department for Bachelor of Pharmacy Honours degree

Academic year-Semester	Course unit code	Course unit title	No. of credits
Year 1 - Semester 1	PH 1112	Pharmaceutical Chemistry I	2.0
	PH 1123	Biochemistry I	2.5
	PH 1132	Pharmaceutics I A	2.0
	PH 1144	Human Biology I	3.5
	PH 1152	Mathematics	2.0
	PH 1163	Information Technology	3.0
Total			<b>15</b>
Year 1 - Semester 2	PH 1213	Pharmaceutical Chemistry II	3.0
	PH 1222	Pharmaceutical Chemistry III	2.0
	PH 1232	Biochemistry II	2.0
	PH 1242	Pharmaceutics I B	2.0
	PH 1254	Human Biology II	3.5
	PH 1262	Biostatistics I	1.5
Total			<b>14</b>
Year 2 - semester 1	PH 2114	Pharmaceutics II A	4.0
	PH 2123	Pharmaceutics II B	3.0
	PH 2134	Pathology and Pharmacology I	4.0
	PH 2143	Biostatistics II	3.0
	PH 2153	Pharmaceutical Microbiology	3.0
Total			<b>17</b>
Year 2 - semester 2	PH 2214	Pharmaceutics III	4.0
	PH 2223	Pharmacy Law & Ethics	3.0
	PH 2232	Pharmacology II	2.0
	PH 2244	Medicinal Chemistry and Pharmacognosy I A	4.0
	PH 2254	Pharmacognosy I B	4.0

Total			<b>17</b>
Year 3 - semester 1	PH 3113	Analytical Chemistry	3.0
	PH 3125	Pharmacognosy II	5.0
	PH 3134	Hospital & Clinical Pharmacy	4.0
	PH 3142	Community Pharmacy I	2.0
	PH 3153	Pharmacology III	3.0
Total			<b>17</b>
Year 3 - semester 2	PH 3212	Pharmacology IV & Toxicology	2.0
	PH 3223	Pharmacotherapeutics	3.0
	PH 3233	Pharmaceutical Biotechnology	3.0
	PH 3242	Management and Economics	2.0
	PH 3253	Marketing and Accounting	3.0
Total			<b>13</b>
Year 4 - semester 1**	<b>Industrial Pharmacy stream</b>		
	PH 4112	Advanced Medicinal Chemistry I	2.0
	PH 4123	Pharmaceutical Analysis	3.0
	PH 4134	Pharmaceutical Technology	4.0
	PH 4141	Cell Biology & Immunology	1.0
	PH RPI	Research I	2.0
	Total		<b>12</b>
	<b>Hospital Community and Clinical Pharmacy stream</b>		
	PH 4112	Advanced Medicinal Chemistry I	2.0
	PH 4123	Pharmaceutical Analysis	3.0
	PH 4132	Applied Pharmacology	2.0
	PH 4143	Community Pharmacy II	3.0
	PH RPI	Research I	2.0
	Total		<b>12</b>
	<b>Industrial Pharmacy stream</b>		
	PH 4213	Advanced Medicinal Chemistry II	3.0
	PH 4223	Quality Control	3.0
	PH 4231	Molecular Genetics	1.0
	PH 4242	Biopharmaceutics	2.0
	PH RPII	Research II	6.0
	Total		<b>15</b>
	<b>Hospital Community and Clinical Pharmacy stream</b>		
	PH 4212	Clinical Pharmacy	2.0
	PH 4223	Quality Control	3.0
	PH 4233	Hospital Pharmacy	3.0
	PH 4241	Radiopharmacy	1.0
	PH RPII	Research II	6.0
	Total		<b>15</b>

Total credits for the degree				<b>120</b>
<b>Compulsory NGPA Course Units</b>				
<b>Year</b>	<b>Semester</b>	<b>Course Units</b>	<b>Course Unit Code</b>	<b>Credits</b>
1	1	Development Programme for English	AH1010	<b>0</b>
1	2	Proficiency in English Level I	AH1212	<b>2</b>
2	1	Proficiency in English Level II	AH2112	<b>2</b>
2	2	Proficiency in English Level III	AH2212	<b>2</b>
3	1	Proficiency in English Level IV	AH3112	<b>2</b>
3	2	Proficiency in English Level V	AH3212	<b>2</b>

## 6.8. Course unit description for Bachelor of Pharmacy Honours degree

### First year first semester

#### PH 1112 Pharmaceutical Chemistry I

Basic concepts in organic chemistry, stereochemistry, structure, nomenclature, preparations, and reactions & mechanisms of organic compounds, chemistry of biomolecules: carbohydrates, fats and oils, proteins and amino acids, nucleic acids, inorganic pharmaceutical chemistry

#### PH 1123 Biochemistry I

Introduction to cell, cell membrane, cell organelles, cell division, metastasis, transport mechanisms, bioenergetics and biological oxidation, enzymes, vitamins and coenzymes, digestion and absorption of nutrients, carbohydrate metabolism, lipid metabolism

Practical: Familiarizing with the laboratory glassware, equipment and chemicals, properties of carbohydrates, properties of lipids, properties of proteins, enzymatic hydrolysis of starch by amylase and effect of temperature and pH on amylase activity, measurement of pH (pH meter) and preparation of standard buffers (citrate, phosphate and carbonate)

#### PH 1132 Pharmaceutics IA

Introduction to pharmacy, historical development of pharmacy, information resources in pharmacy, introduction to weights and measures, conversion of each system, pharmaceutical calculations, posology, physical properties of drug molecules, physicochemical principles of drug molecules, solubility phenomena, micrometrics

### **PH 1144 Human Biology I**

Anatomy: The cell, basic introduction to tissue types & glands, skin, structure of the heart- normal & abnormal, vascular system-arteries, veins, capillaries and lymphatics, respiratory system, general & systemic embryology, formation of placenta & placenta circulation, structure of the gastrointestinal tract-macroscopy & microscopy, structure and arrangements of associated glands of the gastrointestinal tract

Practical: Histology of tissue types and glands, cardiovascular system, respiratory system, gastrointestinal system

Physiology: Functions of cell membrane, drug receptors, modes of transport, blood, haemostasis, anaemia, cardiovascular physiology, respiratory system, gastrointestinal system

Practical: Practical demonstrations on blood haemoglobin estimation, packed cell volume, osmotic fragility, erythrocyte sedimentation rate, white blood cell count and differential count peripheral blood film, blood grouping, bleeding time, clotting time and prothrombin time and anticoagulants

### **PH 1152 Mathematics**

Fundamental concepts in algebra, functions and graphs, exponential and logarithmic functions, trigonometric functions, differentiation, integration, differential equations and applications

### **PH 1163 Information Technology**

Introduction to computers, computer system organization, hardware, number systems, software, data communication, introduction to computer networks, internet applications, system analysis and designing, data processing, pharmacoinformatics

Practical: Introduction to windows: windows basics, working with windows, file manipulation, creating and maintaining directories, subdirectories and files, backup strategies and virus prevention, study of application software packages: word processing, spreadsheets, database management systems, using a software package to solve mathematical and statistical problems, Using the internet: browsing, searching databases of main biomedical journals (medicine, embase etc.) and information retrieval using the www and the internet

### **First year second semester**

### **PH 1213 Pharmaceutical Chemistry II**

Reactive intermediates in organic reactions, elimination reactions, electrophilic addition reactions, nucleophilic addition reactions, nucleophilic substitution reactions, theory of resonance, arenes and their reactions, amines and nitrogen

bases, phenols and carboxylic acids, organic name reactions and their uses in drug synthesis, a study of the specific uses of the reagents in organic synthesis, chemistry of polycyclic aromatic compounds, chemistry of heterocyclic compounds, polymers and macromolecules

### **PH 1222 Pharmaceutical Chemistry III**

Familiarizing with the laboratory glassware, equipment and chemicals, qualitative analysis of organic compounds, identification of functional groups of carbonyl groups (aldehydes, ketones), carboxylic acids, phenols, amides, esters and amines of known organic compounds, identification of functional groups of unknown organic compounds, preparation of derivatives for the identification of functional groups, purification by recrystallization, melting point determination, separation of simple binary mixtures of organic compounds

### **PH 1232 Biochemistry II**

Haemoglobin and plasma proteins, amino acid metabolism, nucleic acids and protein synthesis, purine – pyrimidine metabolism

Practical: Qualitative analysis of normal urine, qualitative analysis of abnormal urine, estimation of total protein in serum, estimation of serum calcium, estimation of serum phosphate, estimation of cholesterol in serum and calculation of lipid profile, estimation of creatinine in serum, determination of blood glucose, estimation of serum bilirubin, estimation of blood urea, estimation of urine chloride, estimation of SGOT and SGPT in serum, estimation of  $\text{Na}^+$  and  $\text{K}^+$  (Flame photometry, ion selective electrodes), estimation of free and total acidity of gastric juice, separation of serum proteins by electrophoresis

### **PH 1242 Pharmaceutics IB**

Dispersions-colloids, coarse dispersion, surface and interfacial phenomena, precipitation, distillation, miscellaneous processes, kinetic principles and stability testing, bulk characterization of ingredients, rheology and flow of fluid, heat, radio pharmacy

### **PH 1254 Human Biology II**

Anatomy: Musculoskeletal system, special sense organs, endocrine system, nervous system, reproductive system, urinary system, lymph and reticulo-endothelial system

Practical: Reproductive system—male/female, gastrointestinal tract, urinary, musculoskeletal system, special sense organs, endocrine, central nervous system

Physiology: Reproductive system, muscle, endocrine system, homeostasis and body fluids, renal system, neurophysiology

Practical - Respiratory system, renal system, cardiovascular system.



**PH 1262: Biostatistics I**

Introduction to biostatistics, sources and methods of data collection, summarizing and presentation of data, descriptive statistics, introduction to probabilities

**Second year first semester****PH 2114 Pharmaceutics II A**

Introduction to dosage forms, powders and granules, biphasic dosage forms, ophthalmic, nasal and otic preparations, galenical preparations, suppositories and pessaries, monophasic dosage forms, transdermal drug delivery systems, surgical aids

Practical: Weighing and measuring, containers and closures, solvents used in pharmacy, labeling, Latin abbreviations, dispensing from hospital bulk pack, compounding and dispensing: the principles of compounding and dispensing of 30 extemporaneous preparations, hypertonic saline solution, ephedrine nasal drops, castor oil laxative emulsion, sodium bicarbonate mixture, liniment of turpentine, sulphamidine mixture for infants, calamine lotion, Lugol's iodine solution, methyl salicylate liniment

**PH 2123 Pharmaceutics II B**

Introduction to tablets, pharmaceutical incompatibilities, introduction to parenteral products, therapeutics aerosols, inhalations and sprays, introduction to capsules, biological products; blood products and plasma substitutes, sustained action dosage forms, implants, birth control devices, a brief introduction to oral hygiene products

Practical: Bases for semisolid pharmaceuticals, compound magnesium trisilicate powder, whitfield ointment, cetrimide cream, zinc and coal tar paste, flexible collodion/salicylic in flexible collodion, menthol and eucalyptus oil inhalation British Pharmaceutical Codex (BPC), sodium bicarbonate ear drops, Lassars paste, kaolin and morphine mixture

**PH 2134 Pathology & Pharmacology I**

Introduction and definition, pharmacokinetics, routes of drug administration, pharmacodynamics, pharmacovigilance & adverse drug reactions, preclinical and clinical trials, drug interactions, drug designing and development, prescription reading and pharmacoeconomics, good manufacturing practice/good clinical practice/good storage practice, drugs used in pregnancy and lactation, paediatric pharmacology, geriatric pharmacology, drug treatment in renal and liver impairments, introduction and autonomic nervous transmission, sympathomimetics, adrenergic receptor blockers – alfa and beta, cholinergic and anticholinergic drugs, neuromuscular blockers, introduction to cardiovascular pharmacology, drugs used in ischemic heart disease, angiotensin converting enzyme inhibitors, calcium channel blockers/ drugs used in dyslipidaemia, diuretics, antiarrhythmic drug, basic

principles of cell injury and adaptor, inflammation, immunopathology, hypersensitivity, auto- immunity, neoplasia

### **PH 2143 Biostatistics II**

Population and sampling, estimation and hypothesis testing, regression analysis and correlation, nonparametric tests, medical statistics, design and analysis of experiments, statistical quality control, time series analysis

Practical: Use of software package to solve statistical problems

### **PH 2153 Pharmaceutical Microbiology**

Introduction to microbiology, virology, bacteriology, medical virology, mycology, parasitology, microbiological standardization, sterility testing of pharmaceutical products, sterilization methods and principles and disinfections and infection control, microbial spoilage and preservation of pharmaceutical products, control of microbial contamination during pharmaceutical manufacture, industrial microbiology

Practical: Various staining methods-simple staining, grams staining and acid fast staining, structural staining, preparation of various types of culture media, studying of different laboratory equipment and processing e.g. B.O.D. incubator, laminar flow, aseptic hood, autoclave, hot air sterilizer, deep freezer, refrigerator, microscopes etc. evaluation of sterilizing techniques, sub culturing of aerobic and anaerobic bacteria, fungus and yeast, nutrient stabs and slants preparations, isolation of pure culture of micro-organisms and identification of micro-organisms and antibiotic sensitivity test, microbial viable count in a pharmaceutical product, total count of bacteria thermal death time, microbiological assay of antibiotics and vitamin B<sub>12</sub>, standard analysis of water

## **Second year second semester**

### **PH 2214 Pharmaceutics III**

Healthcare system in Sri Lanka, national health policy, health care team, national drug policy, essential drug list: criteria for selection, usage and advantages, rational drug use, dispensing, prescription, research methodology, pharmacoepidemiology, health economics

Practical: Disintegration test, dissolution test, test for uniformity of weight, test for uniformity of diameter, hardness test and friability tests for tablets, disintegration and dissolution tests for capsules, determination of pouring and tapped densities of powders and powder blends and calculation of compressibility index, sieve analysis of powders and granules, prefabricated dosage forms and packaging designs

### **PH 2223 Pharmacy law and ethics**

Introduction to pharmaceutical legislation and ethics, medical ordinance, National Medicines Regulatory Act, cosmetics devices & drug regulations, poisons, opium & dangerous drug ordinance, food act & consumer protection act/consumer affairs

authority act, nutraceuticals and other healthcare products, patent laws, national medicinal drug policy, other related laws, ethics

### **PH 2232 Pharmacology II**

Introduction: Neurotransmission, general anaesthetics, local anaesthetics, sedative and hypnotic drugs, antianxiety, antiparkinsonism drugs, migraine, antiepileptics, narcotic analgesics, analgesics, non-steroidal antiinflammatory drugs and other drugs used in arthritis, antipsychotics, antidepressants, antimanic and hallucinogens, central nervous system stimulants, drug dependence and drug abuse-opioids, nicotine, cocaine, abuse potential, tolerance and dependence

### **PH 2244 Medicinal Chemistry & Pharmacognosy IA**

Basic principles of medicinal chemistry, synthetic strategy in medicinal chemistry, structural features and pharmacological activity, drug design, general aspects of pharmacognosy, crude drugs, herbs and herbal foods, adulteration and substitution in traditional systems of medicine, drugs of animal origin, fibers, pharmaceutical botany and taxonomy

Practical- Taxonomic study of major families with medicinal plants, microscopical studies, basic tissues, anatomy of bark, stem (dicot, monocot), root (dicot, monocot), seed, leaf and fruit, trichomes, stomata, ergastic cell contents including calcium oxalate crystals

### **PH 2254 Pharmacognosy I B**

Drugs containing carbohydrates, fixed oils, fats and waxes, drugs containing volatile oil, monoterpenes, drugs containing resins, drugs containing alkaloids, drugs containing tannins, drugs containing glycosides, drugs containing steroids, drugs containing terpenoids, biosynthesis of plant constituents of pharmaceutical and medicinal interest

Practical- Study of surgical fibers and dressings, general chemical test for detection of carbohydrates, alkaloids, glycosides, tannins, steroids, saponins, resins, terpenes, flavonoids and proteins, microscopic and chemical study of the following powdered drugs, leaf - *Senna*, *Datura*, stem – *Ephedra*, root – *Rauwolfia*, seed - *Strychnosnux-vomica* *Plantago*, bark - *Cinchona* , fruit- *Foeniculum*

### **Third year first semester**

### **PH 3113 Analytical Chemistry**

Quality control and test for purity, gravimetric analysis, pH, buffers and pharmaceutical solutions, titrimetric (volumetric) methods of analysis, acid-base titrations, complexometric titrations, oxidation-reduction titrations, precipitation titrations, diazotization titrations, acid-base titrations in non-aqueous solvents

Practical: Identification of pharmaceutical dosage forms, assay of sodium chloride intravenous infusion, assay of hydrogen peroxide mouthwash, assay of total available iodine in povidone iodine solution British pharmacopeia, assay of lithium carbonate tablets as per British pharmacopeia, assay of aspirin tablets, standardization of a sodium thiosulphate solution, analysis of vitamin C using iodine by iodimetry, complexometric titration, a colourimetric method for the detection of iron content in iron capsules

### **PH 3125 Pharmacognosy II**

Drugs containing enzymes, medicinal plant biotechnology, marine drugs, biologics, immunopharmacognosy, phytochemistry, chemotaxonomy, clinical pharmacognosy, plant drug analysis, the global background of the use of medicinal plants, nonmedical toxic plants and pesticides, natural products and drug development

Practical: Isolation of hyoscyamine from *Atropa belladonna*, isolation of piperine from *Piper nigrum*, isolation of stychinine, brucine from *Strychnosnux-vomica*, isolation of caffeine from *Camellia theasinensis*, extraction of clove oil by steam distillation, isolation of jalap resin, isolation of potato starch, isolation of fixed oil by colour reactions, isolation of trimyristicin and myristicin from *Myristic fragrans*, isolation of pectin

### **PH 3134 Hospital and Clinical Pharmacy**

Hospital pharmacy: Introduction to hospital pharmacy, hospital and its organization, hospital pharmacy and its organization, hospital drug policy, drug distribution systems in hospitals, dispensing to in-door patients and ambulatory patients, storage, aseptic dispensing, central sterile supply department, control substances, surgical consumables, surgical supplies, appliances & medical glasses, inspection of wards with reference to drug storage and administration, role of pharmacists in small hospitals, nursing homes etc., good pharmacy practices

Clinical Pharmacy: Introduction to clinical pharmacy, definition, scope, history and development of clinical pharmacy, professional activities of a clinical pharmacist, drugs and poisons information, utilization of clinical drug literature

Practical: Hospital and clinical pharmacy training

### **PH 3142 Community Pharmacy I**

Introduction to community pharmacy, organization and structure of retail and wholesale pharmacy, community pharmacy management, over the counter drugs and prescription drugs, patient education and counseling, patient information leaflets, role of pharmacist in community

Practical: Community pharmacy training

### **PH 3153 Pharmacology III**

Coagulants and anticoagulants, haemopoietics, fibrinolytic and antiplatelet agents, pharmacology of drug acting on renal systems, antimineralocorticoids, drugs affecting the AntiDiuretic Hormone system, drugs acting on the respiratory system- bronchodilators, mucolytics, expectorants, antitussives, nasal decongestant, pituitary hormones, therapeutic application of pituitary hormones, thyroid hormones and antithyroid agents, insulin, insulin analogs, oral hypoglycemic agents, adrenal corticosteroids, gonadal hormones and their inhibitors, uterine stimulants, oral contraceptives, drugs for infertility, drugs regulating calcium homeostasis, drugs used in peptic ulcer disease, emetics, antiemetics and prokinetics, laxatives and purgatives, antidiarrhoeal agents and oral rehydration therapy, parenteral nutrition and intravenous therapy, dermatopharmacology, basic principles of chemotherapy and drug resistance, sulfonamides and co-trimoxazole, penicillins and cephalosprines, tetracycline and chloramphenicol, aminoglycosides, polyene and polypeptides antibiotics, quinolones and fluroquinolones- urinary antiseptics, macrolides, other miscellaneous agents

### **Third year second semester**

#### **PH 3212 Pharmacology (IV) and Toxicology**

Pharmacology: Autacoids (Histamines & Antihistamines), antiviral drugs, anticancer drugs, drugs for tuberculosis and leprosy, antifungal drugs, drugs for protozoal infections (malarial, amoebiasis, giardiasis), anthelmintics, immunopharmacology

Toxicology: Introduction, signs, symptoms and treatment of acute and chronic poisoning due to drugs, alcohol, insecticides, snake bites, heavy metals (iron, lead, mercury, arsenic) & chelators, food additives, solvents, therapeutics and toxic potentials of over the counter drugs; paracetamol, aspirin

#### **PH 3223 Pharmacotherapeutics**

Disorders of the cardiovascular system, respiratory disorders, renal disorders, endocrine disorders, neurological disease, psychological diseases, gastrointestinal diseases, peptic ulcers, hepatitis, alcohol liver disease, Infectious disease, skin disorders, musculoskeletal disease, auto immune disorders

Practical: Clinical oriented training

#### **PH 3233 Pharmaceutical Biotechnology**

Introduction scope, fermentation technology, downstream processing, introduction to genetics and pharmaceutical biotechnology, introduction to DNA and extraction of DNA, recombinant DNA (r-DNA) technology, enzymes used in r-DNA technology and construction of r-DNA, in- vitro manipulation of r- DNA, polymerase chain reaction (PCR), gel electrophoresis and quantitation of DNA, human genome project and DNA sequencing, DNA based screening and diagnosis of human disease, animal biotechnology, plant biotechnology in pharmaceutical industries,

application of immunological techniques in pharmaceutical industry, blood products and glandular products, enzyme biotechnology

Practical: DNA extraction, PCR, Gel electrophoresis, DNA transformation, hybridization, blotting techniques, cloning, restriction digestion, microbial assay of antibiotics and vitamins as per British Pharmacopeia

### **PH 3242 Management and Economics**

Introduction to management, functions of management –planning, organizing, leading, controlling, decision making, leadership, motivation, managing change and innovation, the organization, principles of economics, competitive practices in the pharmaceutical industry, brief study of insurance, procedure for importing and exporting pharmaceuticals

### **PH 3253 Marketing and Accounting**

Introduction to marketing, pharmaceutical product marketing, pricing, distribution, promotion, principles of accounting, journal entries and ledger posting, cash book, petty cash book, trial balance, profit & loss account, balance sheet, bank reconciliation, brief study of cheques, bills of exchange and promissory notes

## **Fourth year first semester**

### **PH 4112 Advanced Medicinal Chemistry I**

Biological action, synthesis of compounds, structure activity relationship and therapeutic applications of the following classes of drugs

Central nervous system depressants, adrenergic agents, cholinergic agents, histamines and antihistamines, analgesics, prostaglandins and other eicosanoids, chemistry of vitamins, chemistry of local anesthetics, occurrence, properties, preparation and application of official inorganic compounds, bioassay technique for drug development

Practical: Preparation of Iodoform, synthesis of acetanilide, synthesis of p-nitroaniline, synthesis of 4-bromoaniline, synthesis of aspirin, synthesis of paracetamol, synthesis of sulphanilamide, synthesis of methyl salicylate, hydrolysis of methyl salicylate, synthesis of anthranilic acid

### **PH 4123 Pharmaceutical Analysis**

Absorption spectroscopy, polarimetry, electrometric methods, chromatography, aquametry, turbidimetry, diffusion and dissolution

Practical: Instrumental analysis, column chromatography, spectroscopic analysis, uv-visible spectroscopic analysis

**PH 4132 Applied Pharmacology**

Basic concepts of prescription, clinical trials, concepts of essential drug list, prescription in organ impairment, principles in prescription in neonates, principles in prescription in pregnancy and breast feeding, importance of evidence based medicine, principles of active pharmacovigilance, ethics in drug research, safe use of medication, therapeutic application of cytotoxic drugs

Practical: Study of devices and inhalation techniques, evaluation of advertisements, drug information, prescription reading, drug administration techniques, emergency tray

**PH 4134 Pharmaceutical Technology**

Unit operations, flow of fluids, flow of heat, evaporation, distillation, filtration and centrifugation, mixing, drying, comminution, particle properties, particle size separation compression and compaction, tablet manufacturing, capsule manufacturing, safety methods in pharmaceutical industry, humidification, air conditioning, refrigeration and ventilation, manufacturing plant design, emulsions, suspensions, semisolids, sterile products, cosmetology

Practical: Operation of mills, operation of dryers, operation of mixers, operation of sieve shaker and sieve analysis of powders and granules, experiment to determine the leaching of contents from packaging materials: ampoule and vials, determination of angle of repose, measurement of the density of a liquid using an oswald pycnometer, determination of the viscosity of a liquid using an oswald viscometer, determination of the precept composition of a mixture of ethanol and water by viscometer method, determination of surface tension of a pure liquid by the drop size method.

**PH 4141 Cell Biology and Immunology**

Cell biology, immunology

Practical: Immunological techniques: ELISA (enzyme-linked immunosorbent assay), immunodiffusion, ELIS spot assay, Antigen – Antibody reactions in diagnosis of diseases

**PH 4143 Community Pharmacy II**

Patient compliance/adherence, communication skills, control of substance abuse and misuse, meeting the needs of specific client groups, alternative systems of medicines

Practical: Community pharmacy training

**PH RP I Research**

Each Pharmacy student is supposed to conduct an individual research project during the final year under the supervision of the academic staff members. Eight credits are allocated for the research project and it is evaluated by a project report and presentations

PH RP I Research is a research proposal writing, submission and presentation in the 1<sup>st</sup> semester of the final year. Research topic is given to each student at the beginning of the semester and the research project principally involves pharmacy practice, pharmaceutical sciences and related fields. Research proposal which is a short report comprising a short literature review and the proposed work, is, prepared for the second semester PH RP II research project

#### **Fourth year second semester**

##### **PH 4213 Advanced Medicinal Chemistry II**

Antihypertensives, antiarrhythmic drugs, drugs used in hyperlipidemias, drugs used for therapy of congestive cardiac failure, diuretics, anticoagulants hormones and related drugs, thyroid hormones and antithyroid agents, hormones and related drugs, oral hypoglycaemic agents, drugs acting on the gastrointestinal tract, anti-ulcer drugs, anti-infectives, local anti-infective agents antibiotics & antibacterial agents, sulfonamides and co-trimoxazole, penicillins, cephalosporins, beta lactamase inhibitors, tetracyclins, chloramphenicol, aminoglycosides, quinolones and fluroquinolones, macrolides and other miscellaneous agents, drugs for tuberculosis, leprosy, antivirals, antifungals drugs for protozoal infections anthelmintics, anti-inflammatory drugs, anticancer drugs, drugs of dependence, chelating agents, drugs acting on respiratory system

Practical: Synthesis of phenolphthaline, isolation of Ibuprofen from Ibuprofen tablets, synthesis of picric acid, preparation of derivatives of picric acid anthracene picrate and amine picrate,, synthesis of chlroramine T, synthesis of benzoic acid and benzyl alcohol from benzaldehyde, synthesis of benzoic acid from benzyl, isolation of tolbutamide from tolbutamide tablet, synthesis of derivatives (derivatives of carbohydrates and derivatives of nitrophenols), isolation of methyl salicylate from oil of wintergreen

##### **PH 4242 Biopharmaceutics**

Drug absorption, biological half-life and drug distribution, biotransformation, excretion, bioavailability and bioequivalence, rates and order of reaction, multiple dosage regimens, intravenous infusions, biopharmaceutical and pharmacokinetic aspects in developing a dosage form, applications of pharmacokinetics and bioavailability in clinical situations, compartment models

##### **PH 4212 Clinical pharmacy**

Introduction to clinical pharmacokinetics, clinical laboratory data, clinical trials, save intravenous therapy & hazards of intravenous therapy, general guidelines for prescribing drugs in peadiatrics, geriatrics, pregnancy and lactation, drug screening and toxicity testing, teratogenicity testing, vaccines and immunization schedule

Practical: Clinical pharmacy training



**PH 4233 Hospital Pharmacy**

Budgeting, purchase and inventory control in hospital pharmacy department, hospital manufacturing: bulk and sterile, investigational/diagnostic drugs, health accessories, management of accident & emergency pharmacy

Practical: Hospital pharmacy training

**PH 4231 Molecular Genetics**

Introduction to genetic diseases, classical genetics, microbial genetics, gene expression

**PH 4223 Quality control**

Standardization of pharmaceuticals and good manufacturing practice, quality control of solid dosage forms, quality control of syrups and elixirs, evaluation of sustained action products, quality control of suppositories, quality control of sterile products (parenterals), general knowledge of appendices attached to British pharmacopeia (B.P.), British pharmaceutical codex (B.P.C.), and United state pharmacopeia (U.S.P), Packing and packaging, materials of fabrication of pharmaceutical machinery

Practical: Analysis of packaging materials: corrugated box, carton, behavior of binding agents in water, weighing pharmaceutical ingredients for manufacture, effects of temperature and humidity on various moisture fractions in pharmaceutical raw materials, disintegration test, dissolution test, test for uniformity of weight, test for uniformity of diameter, test for uniformity of content, hardness test and friability tests for tablets, disintegration test and dissolution tests for capsules, prefabricated dosage forms and packaging design study, stability testing of all dosage forms, quality control of parenteral products, quality control of liquid preparations

**PH 4241 Radiopharmacy**

Introduction to radio pharmacy, disintegration of unstable nuclei, radioactive decay, radiopharmaceuticals, design, stability, production, standardization and handling of radiopharmaceuticals, clinical application of radiopharmaceuticals, important radionuclei generators, radiation protection in radiopharmacy, diagnosis use of radio isotope

**PH RPII Research II**

Carry out a research project on the topic given in the fourth year first semester under **PH RP I**, submission of a dissertation and presentation at the end of the second semester

## **Training programmes**

### **1. Clinical orientation programmes (COP)**

- 1.1. Clinical orientation programmes (COP) of course units of PH 3134 Hospital and Clinical pharmacy, PH 3142 Community pharmacy I, PH 3223 Pharmacotherapeutics, PH 4143 Community pharmacy II, PH 4212 Clinical pharmacy, PH 4233 Hospital pharmacy are scheduled in the relevant semester to enhance the student practical knowledge, skills and confidence in providing patient care in the Sri Lankan health care system. The students gain their relevant training in the following placements under the instructions given by the departmental clinical coordinator according to the given learning objectives.
- 1.2. During the community pharmacy practice, students are trained at Osusala in Galle and Karapitiya, Ruhunu Hospital pharmacy in Karapitiya and Asiri Hospital pharmacy in Galle on roster basis with given learning objectives under the supervision of the heads of the relevant community pharmacies.
- 1.3. During the hospital pharmacy practice, students are trained at indoor pharmacy, outdoor pharmacy, surgical and cancer wards stores, radiology unit and chief pharmacy of Karapitiya Teaching hospital on roster basis with given learning objectives under the supervision of the heads of the relevant units.
- 1.4. During the clinical pharmacy practice, students are trained at paediatric ward, medicine ward, surgical ward, gynecology and obstetrics ward and psychiatry ward of Karapitiya Teaching hospital on roster basis with given learning objectives under the supervision of the consultants and heads of the relevant units.
- 1.5. During the Pharmacotherapeutic practicals, students are trained at immunization clinic, emergency treatment unit (ETU), intensive care unit (ICU), eye ward, oncology ward, rheumatology ward of Teaching Hospital Karapitiya on roster basis with given learning objectives under the supervision of the consultants and heads of the relevant units.

### **2. Industrial training programmes**

The students gain their relevant industrial training in the following placements under the departmental industrial coordinator and industrial placement coordinator according to the given learning objectives.

#### *Industrial Pharmacy training placements*

State Pharmaceutical Manufacturing Corporation (SPMC)  
State Pharmaceuticals Corporation (SPC)  
National Medicines Regulatory Authority (NMRA)  
National Medicines Quality Assurance Laboratory (NMQUAL)  
Medical Supplies Division (MSD)  
Astron private limited  
Nature's secrets  
Link natural  
Morison Limited

## **6.9. By-laws of the Bachelor of Pharmacy Honours degree**

By-Laws for the Bachelor of Pharmacy (General/Special) Degree originally approved in its 269<sup>th</sup> meeting held on 31<sup>st</sup> October 2012 by the Senate of the University of Ruhuna were revised according to the special court order in 2014. Hereafter the term “Bachelor of Pharmacy (General/Special) Degree” is referred as Bachelor of Pharmacy Honours Degree. These by-laws will be subjected further revision.

These by-laws may be cited as the Bachelor of Pharmacy honours (BPharm Hons) degree by-laws.

1. Subject to these by-laws a student may be admitted to the Degree of Bachelor of Pharmacy honours if he /she:
  - 1.1. has been admitted as an internal student of the University and
  - 1.2. has been registered as a student of the University for a period of 4 years
  - 1.3. has completed to the satisfaction of the Vice Chancellor, courses of study as prescribed by these By-Laws and Rules and Regulations made there under
  - 1.4. has passed all the Bachelor of Pharmacy end semester examinations and
  - 1.5. has fulfilled any other conditions or requirements as may be prescribed by the University
2. The examinations leading to the Degree of Bachelor Pharmacy honours shall be:
  - 2.1. The Bachelor of Pharmacy honours – First BPharm consists of part I and part II examinations
  - 2.2. The Bachelor of Pharmacy honours – Second BPharm consists of part I and part II examinations
  - 2.3. The Bachelor of Pharmacy honours – Third BPharm consists of part I and part II examinations
  - 2.4. The Bachelor of Pharmacy honours – Fourth BPharm consists of part I and part II examinations
3. The course units/modules, courses of study and syllabi for the examinations leading to the degree of Bachelor of Pharmacy honours and the number of papers, oral examinations and other forms of evaluation in each subject shall be prescribed by the regulations recommended by Faculty of Medicine (herein after mentioned as Faculty Board) and approved by the Senate.
4. 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. The examinations will be held at the end of the each semester.
5. A student 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.
    - i. A candidate of the Examination should have followed to the satisfaction of the Faculty Board the prescribed course of study in each component of the course unit/module by obtaining minimum requirement of credits by participating in lectures, tutorials, practicals and clinical appointments.
    - ii. A candidate should satisfactorily complete all the required clinical attachments/appointments with at least 80% attendance in relevant semester and satisfactory completion of the assigned number of skills/procedures.
  6. A student may be granted permission to postpone a scheduled attempt on the basis of a valid excuse<sup>1</sup> submitted and accepted by the Faculty Board 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. Students who are unable to sit an examination due to ill health must ensure that a relevant medical certificate is submitted within one week to Assistant Registrar.
  7. 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.
  8. The student should be eligible to sit all course units/modules of an examination before the student is issued an admission card for that particular examination. Student will not be allowed to sit for a separate course unit/module in a particular examination if he/she has not been referred in that course unit.
  9. A student who fails to have 80% attendance at tutorials, practicals or clinical attachments/appointments should complete the 80% attendance before he/she is eligible to sit that course unit, once the 80% attendance at tutorials, practicals or clinical attachments/appointments is completed, the student is eligible to sit the next examination.
  10. If, absence for tutorials, practicals and clinical attachment/appointment is covered by a valid excuse<sup>1</sup>, acceptable to the Faculty Board and to the Senate, the candidate will be eligible to sit the examination if she/he is achieved 65% of attendance. The student should be eligible to sit for all course units of an

examination before he/she is admitted to that examination. If this scheduled examination is the student's first attempt and the valid excuse is acceptable, the student will be eligible for Distinctions and Honours.

**Valid excuses**

1. Medical certificate acceptable to the Faculty Board. Person/ Institution entitled to issue valid medical certificates for the above purposes,
  - i. University Medical officer of the Faculty of Medicine.
  - ii. A consultant in any government hospital.
  - iii. A District Medical Officer (DMO) in a government hospital.
  - iv. A medical certificate issued by a Teaching/ General/ Base hospital.

Medical certificate from medical officers or institutions other than those listed will NOT BE ACCEPTED.

2. Death of an immediate family member (parents/ brother/ sister/ If married spouse, children) one week prior to the examination or during examination the death certificate should be submitted for the approval of the Senate.
3. Any acceptable reason for the Faculty Board and the Senate.

11. If the student fails to sit for a course unit/module without a valid excuse acceptable to the Faculty Board, the student will receive a zero mark for that course unit and will fail the whole examination. A student should take the entire examination next time as his/her second attempt. The student would not be eligible for distinctions and honors.

12. If the candidate fails to sit for a course unit/module with a valid excuse acceptable to the Faculty Board, the candidate should take the relevant course unit in the next available examination. If it is not the first attempt the candidate would not be eligible for Distinction and Honours. He/ she can complete the other course units/modules of the examination. The results of the course units that the student sat for would be withheld until the results of all the course units can be released.

13. When a student is unable to sit for a scheduled examination without a valid excuse and sits for an examination in the second of subsequent attempt.

14.

14.1. If a student is unable to sit for the examination at the first scheduled attempt due to his/her being repeated in a clinical attachment/appointment on account of a valid excuse he/she may be allowed to sit the next examination. If the missed examination is the student's first attempt he/she will be eligible for Honours and Distinctions at the next scheduled examination.

14.2. If a student is unable to sit for a scheduled examination due to his/her being repeated in a clinical placement or due to incomplete clinical attachment/ appointment records and not on account of a valid excuse student should complete it and will be eligible to sit the next scheduled examination but will not be eligible for Honours and Distinctions.

15. A student who has been successful at the First BPharm examination, Second BPharm examination, Third BPharm examination and Fourth BPharm examination for Bachelor of Pharmacy Honors 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.

16.

16.1. An overall average of 50% marks in a course unit/module shall be counted as the pass mark in that subject, provided that a minimum of 50% practical marks and a minimum of 40% theory marks are obtained.

16.2. In clinical attachments/appointments, in addition to 40% theory a student should obtain a minimum of 50% marks in relevant appointment and an overall average of 40% shall be considered to have passed in that subject.

A student who has passed at least in one course unit of and has received 25% or more for each of the other course units will be referred in the latter course unit/ units. If a student receives less than 25% for any course unit he/she will be considered as having failed that whole examination.

17. For clinical attachments/ appointments, a student who obtains an overall average of 70% marks in a subject and 65% for the theory paper and 65% for the clinical experience shall be considered to have obtained a distinction in that course unit/module, provided that he/she is sitting that examination for the first time and that he/she passes the whole examination.

18. A student who fails any course unit/module in an examination can sit for the same course unit/module in two further occasions as a repeat candidate. The highest grade given to a repeat candidate is C. Repeat students can participate in the next scheduled lectures of the particular course unit after obtaining permission from the relevant head of the department. But they are not entitled to attend practical classes in the course unit in which he/she has failed.

19. Special entrants: They enter the course from the beginning of the first year and entitled to all the regulations recommended by the Faculty Board and approved by the Senate.

20. Final GPA of the student will be calculated according to the following equation,

$$GPA = \frac{\sum(\text{Grade Point Scored for the Course Unit} \times \text{Credit Value of the Course Unit Followed})}{\text{Cumulative Credit Value of all Course Units Followed}}$$

Final GPA of the students who are following BPharm Honours Degree will be calculated with contribution of 60% of the subjects from 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> year GPA and 40% of GPA from 4<sup>th</sup> year subjects and this will be applied for awarding classes.

21.

- 21.1. A candidate requires a Grade Point Average of not less than 2.0 and C or better for all course units to qualify for the BPharm Honours Degree.
- 21.2. A student requires a Grade Point Average of not less than 3.70 and grades of A or better in course units aggregating to a minimum of 45% of total credits to qualify for First Class (Honours).
- 21.3. A student requires a Grade Point Average of not less than 3.30 and grades of B or better in course units aggregating to a minimum of 45% of total credits to qualify for Second Class Upper Division (Honours).
- 21.4. A student requires a Grade Point Average of not less than 3.00 and grades of B or better in course units aggregating to a minimum of 45% of total credits to qualify for Second Class Lower Division (Honours).

22. A candidate shall be eligible for the conferment of the Bachelor of Pharmacy Honours Degree after successful completion of all the requirements within a maximum period of 7 academic years from the date of entry to the Faculty.

### **Bachelor of Pharmacy honors – End Semester Examinations**

- 1. Each end semester examination for the B.Pharm honours degree consists of the course units that are offered in each semester.
- 2. The examination will be held after completion of the academic program in each semester.

#### **First BPharm Examination:**

First year examination for Bachelor of Pharmacy Honours consists of two end semester examinations in the following course units:

#### **First Semester- First BPharm Part I**

- a) PH 1112 Pharmaceutical chemistry I
- b) PH 1123 Biochemistry I
- c) PH 1132 Pharmaceutics IA
- d) PH 1144 Human Biology I
- e) PH 1152 Mathematics
- f) PH 1163 Information Technology

### Second Semester - First BPharm Part II

- a) PH 1213 Pharmaceutical chemistry II
- b) PH 1222 Pharmaceutical chemistry III
- c) PH 1232 Biochemistry II
- d) PH 1242 Pharmaceutics IB
- e) PH 1254 Human Biology II
- f) PH 1262 Biostatistics I

- 22.1. A student sitting for the examination should have followed to the satisfaction of the Vice-Chancellor the prescribed course of study in each component of these course units.
- 22.2. The examination immediately following the completion of the course shall be deemed to be the first due or scheduled attempt.
- 22.3. A student shall be deemed to have sat the first scheduled examination irrespective of whether it has been actually attempted or not, unless a valid excuse has been submitted and accepted by the Senate.
- 22.4. If the excuse has been accepted, the examination immediately following the expiry of the postponement recommended by the Senate shall be the students' first attempt.
- 22.5. In the absence of an accepted excuse, failure to sit any due or scheduled examination will be considered as an unsuccessful attempt at the examination.
- 22.6. A student must complete the Bachelor of Pharmacy First year examination in no more than four student attempts not counting validly excused attempts.

### **Second BPharm Examination:**

Second year examination for Bachelor of Pharmacy Honours consists of two end semester examinations in the following course units:

### First Semester- Second BPharm Part I

- a) PH 2114 Pharmaceutics IIA
- b) PH 2123 Pharmaceutics IIB
- c) PH 2134 Pathology and Pharmacology I
- d) PH 2143 Biostatistics II
- e) PH 2153 Pharmaceutical Microbiology

### Second semester- Second BPharm Part II

- a) PH 2214 Pharmaceutics III
- b) PH 2223 Pharmacy law and ethics
- c) PH 2232 Pharmacology II



- d) PH 2244 Medicinal Chemistry and Pharmacognosy IA
- e) PH 2254 Pharmacognosy IB

1. A student sitting for the examination should have followed to the satisfaction of the Vice-Chancellor the prescribed course of study in each component of these course units.

### **Third BPharm Examination:**

Third year examination for Bachelor of Pharmacy Honours consists of two end semester examinations in the following course units.

#### First Semester- Third BPharm Part I

- a) PH 3113 Analytical Chemistry
- b) PH 3125 Pharmacognosy II
- c) PH 3134 Hospital and Clinical Pharmacy I
- d) PH 3142 Community Pharmacy I
- e) PH 3153 Pharmacology III

#### Second Semester- Third BPharm Part II

- a) PH 3212 Pharmacology IV and Toxicology
- b) PH 3223 Pharmacotherapeutics
- c) PH 3233 Pharmaceutical Biotechnology
- d) PH 3242 Management and Economics
- e) PH 3253 Marketing and Accounting

1. A student sitting for the examination should have followed to the satisfaction of the Vice-Chancellor the prescribed course of study in each component of these course units.
2. Should achieve all requirements for completion of each course unit/module.
3. A student shall be deemed to have passed the 3<sup>rd</sup> year examination for Bachelor of Pharmacy if he/she has, at one and the same examination, satisfied the board of examiners in each of the course units prescribed and successfully completed a qualifying examination in the English language.
4. A student who passed but who has been referred in one or more course units at the 3<sup>rd</sup> BPharm examination should pass at least one other subject within the next 3 scheduled attempts. Failing this, he/she will have to resit the whole examination.
5. A student may be granted permission to postpone a scheduled attempt on the basis of a valid excuse submitted to and accepted by the Senate. Each period of exemption granted will be considered by the Senate on the basis of individual merit.
6.
  - a. A student shall complete his/her 3<sup>rd</sup> BPharm examination either within 3 years or 6 scheduled attempts after the first scheduled attempt. All periods

of exemption granted by the Senate are excluded when computing this 3 year period.

- b. Not with standing above, a student should complete the Bachelor of Pharmacy 3<sup>rd</sup> year examination within 6 years of registration with or without a valid excuse.

#### **Selection for special degree\***

Students who are eligible for Special BPharm Degree should fulfill following criteria.

1. Complete 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> B Pharm examinations.
2. Grade C or better for all subjects of 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> BPharm examinations.
3. GPA should be 2.00 or more.
4. Grade B or better for following course units.

Analytical chemistry – Industrial Pharmacy Special Degree.

Hospital and Clinical Pharmacy – Hospital, community and Clinical Pharmacy Special Degree

5. Students will be chosen for special degrees on merit basis purely on marks of above mentioned two course units. If a student gets selected for both streams the position in the list will be considered for the selection of the stream. In any case if a student gets same position for both course units student's choice will be considered as a special criteria.

#### **Special BPharm Examination:**

Special BPharm examination for Bachelor of Pharmacy (special degree) consists of two end semester examinations in the following course units.

##### First Semester- Special BPharm Part I

Common for both industrial pharmacy special degree and Hospital, community and Clinical Pharmacy Special Degree

Students will be divided into two streams as Hospital, Community & Clinical Pharmacy stream and Industrial Pharmacy Stream.

- a) PH 4113 Therapeutics
- b) PH 4123 Applied Medicinal Chemistry I
- c) PH 4134 Applied Medicinal Chemistry II
- d) PH 4144 Pharmaceutical Analysis

Research project will be started at the beginning of the special BPharm 1<sup>st</sup> semester and will be continued throughout the year.

## Second Semester- Special BPharm Part II

### Hospital, community and Clinical Pharmacy Special Degree

- a) HCCP 4213 Community Pharmacy II
- b) HCCP 4223 Hospital Pharmacy
- c) HCCP 4233 Clinical Pharmacy
- d) HCCP 4242 Applied Pharmacology
- e) HCCP 4252 Radio Pharmacy

### Industrial Pharmacy Special Degree

- a) PHIP 4214 Pharmaceutical Technology
- b) PHIP 4223 Quality control
- c) PHIP 4232 Biopharmaceutics
- d) PHIP 4242 Molecular Genetics
- e) PHIP 4252 Cell biology and Immunology

1. A student sitting for the special BPharm examination for Bachelor of Pharmacy (special) should have:
  - a) Been registered as a pharmacy student for a period not less than 4 years.
  - b) Passed the 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> year examination for Bachelor of Pharmacy.
  - c) Completed two semesters after passing the 3<sup>rd</sup> year examination of Bachelor of Pharmacy.
  - d) Completed to the satisfaction of the Vice-Chancellor the prescribed course of study in each component of the subjects specified for the special BPharm examination.
  - e) Completed all the clinical orientation programs and pharmacy log records to the satisfaction of the Faculty.
  - f) Completed and submitted relevant progress reports of the Pharmacy research project.
2. The special BPharm examination immediately following the completion of the above requirements shall be deemed to be the first due or scheduled attempt.
3. Student should handover the Pharmacy research project report within three months after the last date of special BPharm part II examination.
4. Internship will be started within 1 month after special BPharm part II examination.
5. A student shall be deemed to have passed the special BPharm examination for Bachelor of Pharmacy if he/she has, at one and the same examination, satisfied the board of examiners in each of the course units/modules prescribed and successfully completed a qualifying examination in the English language.

6. A student who passed but who has been referred in one or more course units at the special BPharm examination should pass at least one other subject within the next 3 scheduled attempts. Failing this, he/she will have to re sit the whole examination.
  7. A student may be granted permission to postpone a scheduled attempt on the basis of a valid excuse submitted to and accepted by the Senate. Each period of exemption granted will be considered by the Senate on the basis of individual merit.
  8.
    - a. A student shall complete his/her special BPharm examination either within 4 years or 8 scheduled attempts after the first scheduled attempt. All periods of exemptions granted by the Senate are excluded when computing this 4-year period.
    - b. Notwithstanding above, a student should complete the Bachelor of Pharmacy Special BPharm Examination within 7 years of registration with or without a valid excuse.
- \* The special degree has been now converted to a four-year degree with two streams as mentioned in the Chapter 06.

## **6.10 Code of conduct for students at clinical or industrial for Pharmacy students**

### **Clinical groups and appointments**

No student shall change the COP group or the COP appointment allocated to him without the prior permission of the clinical coordinator.

### **Attendance and punctuality**

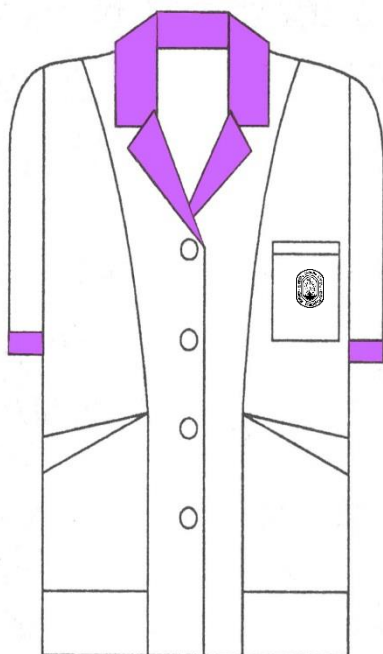
Attendance at COP/ Practical work is compulsory. The student should obtain prior leave from the COP/ Practical instructor concerned before he/she absents himself /herself from COP/ Practical work. The student should spend the full amount of time scheduled on the time table in the wards. The clinical coordinator will specify the days when the student will be given leave from COP work.

### **Dress Code**

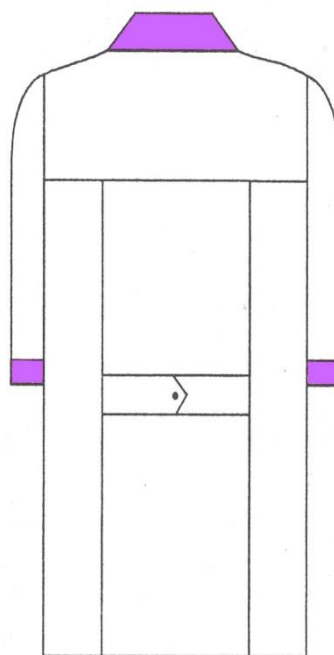
Dress and appearance at all times should be appropriate and conform to the profession. It is strongly recommended that students should be clean, neat and tidy in their appearance. Males should wear longs with shirt and covered shoes. Hair should be neatly combed. Male students should shave their beard and mustache fully. Students should wear the appropriate name tags during their clinical work. Wearing of specially designed overcoats is desirable.

### ***Design for the overcoat***

- Length of the overcoat should be up to the knee level.
- Length of the sleeve should be above the level of elbow.
- Length of the color band at the end of the sleeves should be 2 inches.
- Width of the collar should be 2 inches.
- Width of the back belt should be 2 inches.
- Size of the chest pocket; width 5 inches, height 6 inches.
- Size of the waist pockets; width 8 inches, height 8 inches.
- University emblem should be embedded on the chest pocket.



a) Front view



b) Back view

### **Conduct in the hospital**

In the corridors and public areas of the hospital, the students should not talk loudly and should not block corridors. On entering the wards/ other areas of the hospital students should identify themselves to the hospital staff and obtain permission to deal with patients. Students should not obstruct the work of hospital staff. The students should not smoke or chew betel in the hospital and other relevant premises and the breath should not smell of alcohol. Students should obtain

consent of the patient/guardian before talking with patient. Do not disturb the patient if he/she is asleep, while having a meal or if he/she is uncomfortable. In the case of a patient of the opposite gender it is desirable to have a member of the same gender.

### **Conduct with the patients**

- a) The student should introduce himself to the patient and address the patient suitably with respect. The student should be courteous and considerate to the patient.
- b) No student should give any patient any treatment, medicine, tobacco, drug, alcohol, money or any article of food without the authority of the ward staff.
- c) The student shall maintain strict professional secrecy with regard to information obtained from the patient.
- d) The student should not discuss the patient's condition and prognosis in the presence of the patient.
- e) The student should educate the patient about drug usage of the disease. The student should develop competence in giving such information.
- f) The relationship of the students with patient's visitors should be at a professional level.

### **Hospital records**

The student should not remove hospital records, X-rays, ECG or laboratory reports of patients. Strict confidentiality should be maintained with regard to information obtained from records.

### **Hospital/ Laboratory equipment**

Students should use hospital/ Laboratory equipment with utmost care. Accidental breakages of such equipment should be brought to the immediate notice of ward/technical staff.

### **Out of bounds period**

From time to time the laboratories and the departmental premises will be declared out of bounds to BPharm students on account of the BPharm examination or any other matter announced by the relevant authorities. During such periods students are expected to keep away from the laboratories and the departmental premises.

### **Communicable diseases**

Students who are suffering from a communicable disease should not visit the wards. If in doubt they should consult the University Medical Officer or a person appointed by the Faculty to act in that capacity. In addition, they should inform the clinical coordinator.

**Consulting specialists and other medical staff**

The student should always obtain prior permission and make an appointment when he/she, a relative or a friend of the student wishes to consult a specialist or any other doctor in the hospital.

**Treatment and advice by students**

Students should refrain from advising and dispensing of drugs to patients until they are qualified.

**Attendance**

At attendance of 80% or 65% with medical certificate, is required for signing up student Record Books for the eligibility of sitting for the relevant examinations. The medical certificate has to conform to the regulations given under General Rules for Students.

**Clinical Orientation Programme**

Students doing clinical orientation programme (COP) are expected to work in wards/pharmacy during public holidays unless they have obtained prior leave from the consultant/instructor to whom they are attached.

Attendance at clinical work is compulsory. All students are expected to attend clinical attachments on time and 80% or 65% with medical certificate is required for signing up student Record Books for the eligibility of sitting for the relevant examinations. Student should be present in the allocated unit 5 minutes before the assigned time and should leave the unit 5 minutes after the allocated time. The attendance will be calculated at the end of each semester. Students who do not fulfill this requirement will not be allowed to sit for the relevant examination.

For COP, students are divided into small groups. Students are expected to follow the schedules drawn up for this purpose by the Office. Any unauthorized changes of appointments may result in the cancellation of the appointments with the possible consequences. Clinical orientation book is provided to record the clinical experiences and it should be completed by the students/relevant heads during their clinical placements.

COP appointments which are changed without written permission from the clinical coordinator and Head/ Dean will not be recognized for the course.

Students are reminded that they have to conform to the rules of the medical institutions they work in. Students should also be particularly mindful of the human rights of patients and be aware that students have no inherent right to interrogate or examine patients.

***Eligibility to sit examinations***

No student will be eligible to sit an examination of the Faculty if he/she has not obtained the signature of the relevant teachers/Head of the Department for satisfactory attendance at tutorials, practical classes, ward classes, demonstration and COP attachments. The signature should be obtained on the day of the respective classes of COP.

Students, who have defaulted in respect of University dues, even though they may have satisfied stipulated academic requirements, will not be permitted to sit any examination.



## **CHAPTER 7**

### **Examinations**

#### **7.1. Examinations conducted by the Faculty**

Three departments conduct their own examinations according to the examination by-laws set for each degree programme (Chapters 4, 5 and 6).

The degrees conduct examinations at the end of each semester. In addition, mid-semester examinations are also conducted by the Department of Pharmacy and Department of Medical Laboratory Science.

Students' performance are assessed mainly by written examinations consisting of Multiple Choice Questions (MCQs)/Multiple Response Questions (MRQ), Single Best Response Questions (SBRQs)/Best Response Questions (BRQ), Extended Matching Items (EMI), Structured Essay Questions (SEQs), Essays, Objective Structured Practical Examinations (OSPE), Practical Examinations, Portfolio, Clinical long cases, Objective Structured Clinical Examinations (OSCE), Directly Observed Practical Skills (DOPS), Care/case studies and Assignments coupled with *Viva-voce*.

The research project is evaluated with dissertation and oral presentation based on the dissertation.

Student's performances at each course unit is assessed and graded by one or more of above-mentioned components in the examinations. When there are multiple components in the examinations for a course unit, marks obtained by the candidate is combined in a predetermined manner to obtain the final grade.

A student shall be eligible for the conferment of the relevant degree after the successful completion of all requirements (as specified under the by-laws) within a maximum period of eight years from the date of entry to the University of Ruhuna. Furthermore, students should be aware about the examination Rules, Offences and Punishments of the University of Ruhuna before sit for the examinations (ANNEXURE 4).

#### **7.2. Eligibility for examinations**

##### **7.2.1. Attendance requirements for examinations**

Attendance requirements to register for the examinations are included under the by-laws of each degree programme.

The students who submit the medical certificate to fulfil the attendance requirement should adhere to the regulations given under General Rules for students (ANNEXURE 2) to be eligible for examinations.

### **7.2.2. Registration for examinations**

Students are advised to register for examinations on or before the deadline announced by the faculty. Students can register only for examinations of course units followed by handing over the duly completed registration application form to the relevant department office. Attendance requirements to register for the examinations are included under the by-laws of each degree programme. To be eligible to sit for the examination, a student must maintain a 100% attendance for academic activities (lectures, practical and tutorial, clinical/work-based/industrial training) in all three degree programmes.

For the clinical/work-based/industrial training, to be eligible to sit for the examination of a course unit, both pharmacy and MLS students must maintain 80% attendance with medical certificates while nursing students must maintain 100% attendance. The medical certificate has to conform to the regulations given under General Rules for students (ANNEXURE 2) to be eligible for examinations.

No examination fee levied from all undergraduates who sit for any examination for the first time. Students who re-sit for examinations as repeat students must pay an examination fee as follows:

Rs. 50.00 per credit in semester-based course units

### **7.3. Examination and evaluation structure of BSc Honours in Medical Laboratory Science degree course units**

All course units in the degree programme will be assessed as mid-semester and end-semester examinations.

All units are weighted in the ratio of 70% marks from the end semester examination and 30% from the mid-semester examinations.

The mid-semester component is considered in the calculation of pass mark for each course unit only at the first attempt. For the students sitting for the second or subsequent attempt examinations, final marks will be calculated by considering only the end-semester examination marks.

Year 1 - Semester 1

Course unit Code	Course unit title	MRQ (%)	BRQ (%)	SEQ (%)	Essay (%)	OSPE (%)	Practical (%)
MLS 1111	Anatomy I	25	15	40	-	20	-
MLS 1122	Basic Chemistry I	-	10	45	-	20	25
MLS 1b33	Basic Physics	10	-	50	-	-	40
MLS 1142	Fundamentals of Biochemistry	50		50	-	-	-
MLS 1154	Medical Laboratory Practice	10	-	30	-	20	40
MLS 1163	Physiology I	40		40	-	20	-

Year 1 - Semester 2

Course unit Code	Course unit title	MRQ (%)	BRQ (%)	SEQ (%)	OSPE (%)	Practical (%)
MLS 1211	Anatomy II	40		40	20	-
MLS 1222	Basic Chemistry II	-	20	45	10	25
MLS 1232	Basic Statistics	70	-	30	-	-
MLS 1b41	Biochemistry Practical	-	-	-	100	-
MLS 1252	Enzymes, bioenergetics and hormone action	50		50	-	-
MLS 1263	Metabolism and Regulatory Mechanisms	50		50	--	-
MLS 1274	Physiology-II	40		40	20	-
AHS 1210	First aid and Basic life support	10		30	60	-

Year 2 - Semester 1

Course unit Code	Course unit title	MRQ (%)	BRQ (%)	SEQ (%)	Essay (%)	OSPE (%)	Practical (%)	Practical book (%)
MLS 2112	Basic Bacteriology & Basic Immunology	-	60	40	-	-	-	-
MLS 2122	Basic Bacteriological Techniques	-	-	-	-	60	40	-
MLS 2133	Basic Genetics and Molecular Biology	20	20	40	-	20	-	-
MLS 2144	Basic Haematology	20		30	-	20	30	-
MLS 2153	Medical Parasitology	50		-	-	40	-	10
MLS 2162	Transfusion Medicine	-	20	-	30	20	30	-

Year 2 - Semester 2

Course unit Code	Course unit title	MRQ (%)	BRQ (%)	SEQ (%)	OSPE (%)	Practical (%)	Assignments (%)
MLS 2212	Andrology, Subfertility and Reproductive Health	30	-	40	30	-	-
MLS 2222	Animal Research	-	30	40	30	-	-
MLS 2234	Applied Haematology	20		20	20	30	-
MLS 2242	Diagnostic Bacteriology	-	-	-	100	-	-
MLS 2252	Epidemiology	70	-	30	-	-	-
MLS 2260	Information & Communication Technology	-	-	-	-	50	20
MLS 2273	Systemic Bacteriology	-	60	40	-	-	-

Year 3 - Semester 1

Course unit Code	Course unit title	MRQ (%)	SEQ (%)	OSPE (%)	Practical I (%)	Practical II (%)
MLS 3113	Clinical Biochemistry I	15	20	15	20	30
MLS 3121	Cytopathology & Cyto-technology	20	20	60	-	-
MLS 3131	General Pathology	40	-	60	-	-
MLS 3142	Mycology & Virology	20	30	20	30	-
AHS 3122	Research Methodology	70	30	-	-	-
MLS 3b56	Research Project	1. Chief Supervisor (First Examiner) – 20% 2. Second Examiner (Subject specialist) – 40% 3. Oral Presentation – 40%				

Year 3 - Semester 2

Course unit Code	Course unit title	MRQ (%)	BRQ (%)	SEQ (%)	OSPE (%)	Practical (%)	DOPS (%)
MLS 3213	Applied Laboratory Management	20		30	-	50	-
MLS 3222	Basic Laboratory Management	40		40	20	-	-
MLS 3232	Biotechnology	-	30	40	30	-	-
MLS 3243	Clinical Biochemistry II	15	-	20	15	50	
MLS 3253	Histotechnology	10	25	20	45	-	
MLS 3262	Medical Laboratory Instrumentation*	-	-	30	45	05 (book)	10

\*Assignment – 10%

Year 4 - Semester 1 & 2

Course unit Code	Course unit title	Practical I (%)	Practical II (%)	OSPE (%)	Portfolio (%)	Viva (%)	DOPs (%)
MLS 4b17	Work-Based Training in Clinical Biochemistry	20	-	30	10	20	20
MLS 4b27	Work-Based Training in Haematology and Transfusion Medicine	40		30	10	10	10
MLS 4b38	Work-Based Training in Histotechnology	70	-	-	10	20	-
MLS 4b48	Work-Based Training in Medical Microbiology	90	-	-	10	-	-

At the end of first semester of the second year (third semester) students are assigned to a recognized medical laboratory for a practical training (which is a self-directed training). This training of one month under four major laboratory disciplines gives the opportunity for students to enhance their theoretical knowledge and competency in carrying out laboratory investigations and managing a clinical laboratory. After completion, students are required to submit a report based on the training and it is used as an assessment tool for course unit, MLS 3213 Applied Laboratory Management.

During the practical training in the 4<sup>th</sup> year, the student is required to write and submit an Assessment Portfolio (hand-written) and complete the logbook. The Assessment Portfolio is used to assess practical performance of the student and will ensure satisfactory completion of the practical training.

The B.Sc. MLS Final Year Examination held at the end of 8<sup>th</sup> semester will be the final examination to award the BSc Hons in MLS degree.

#### 7.4. Examination and evaluation structure of BSc Honours in Nursing degree course units

##### Year 1 – Semester 1

Course unit code	Course unit title	MCQ (%)	SEQ (%)	OSPE (%)	OSCE (%)	Viva (%)	Clinical long case (%)
NUR 1112	Anatomy I	30	50	10	-	10	
NUR 1122	Physiology I	30	50	10	-	10	
NUR 1131	Biochemistry	40	60	-	-	-	
NUR 1143	Fundamentals of Nursing I	30	50	10	10	-	
NUR 1151	Health Promotion and Social Aspect in Nursing	-	60	20	20	-	
NUR 1161	Nursing Clinical Attachment I	-	-	-	-	-	100

**Year 1 – Semester 2**

Course unit code	Course unit title	MCQ (%)	SEQ (%)	OSPE (%)	Viva (%)	Clinical long case (%)
NUR 1211	Anatomy II	30	50	10	10	
NUR 1222	Physiology II	30	50	10	10	
NUR 1232	Fundamentals of Nursing II	30	60	10	-	
NUR 1242	Microbiology and Parasitology in Nursing	20	60	20	-	
NUR 1252	Pathology in Nursing	20	60	20	-	
NUR 1261	Nutrition in Nursing	40	60	-	-	
NUR 1274	Nursing Clinical Attachment II	-	-	-	-	100

**Year 2 – Semester 1**

Course unit code	Course unit title	MCQ (%)	SEQ (%)	OSPE (%)	OSCE (%)	Viva (%)	Clinical long case (%)	Care studies (%)
NUR 2111	Pharmacology in Nursing I	20	60	20	-	-	-	-
NUR 2123	Medical Nursing I	40	60	-	-	-	-	-
NUR 2133	Surgical Nursing I	40	60	-	-	-	-	-
NUR 2143	Psychiatry in Nursing	40	40	-	-	20	-	-
NUR 2150	Communication Skills and Interpersonal Relationship	-	-	-	100	-	-	-
NUR 2161	Psychology in Nursing	25	50	10	-	15	-	-
NUR 2175	Nursing Clinical Attachment III	-	-	-	-	-	90	10

**Year 2 – Semester 2**

Course unit code	Course unit title	MCQ (%)	SEQ (%)	OSPE (%)	Viva (%)	Clinical long case (%)	Care studies (%)
NUR 2212	Pharmacology in Nursing II	30	50	-	20	-	-
NUR 2221	Information Literacy in Nursing (Introduction to IT, Patient Database Management)	30	50	20	-	-	-
NUR 2232	Pediatrics Nursing I	40	60	-	-	-	-
NUR 2242	Gynecology and Obstetrics in Nursing I	40	60	-	-	-	-
NUR 2252	Statistics and Epidemiology in Nursing	20	60	20	-	-	-
NUR 2266	Nursing Clinical Attachment IV	-	-	-	-	90	10

**Year 3 – Semester 1**

Course unit code	Course unit title	MCQ (%)	SEQ (%)	OSPE (%)	Presenta tion (%)	Assignm ent (%)	Viva (%)	Clinical long case (%)	Care studies (%)
NUR 3112	Fundamentals of Research in Nursing	30	50	-	-		20	-	-
NUR 3124	Medical Nursing II	40	60	-	-		-	-	-
NUR 3134	Surgical Nursing II	40	60	-	-		-	-	-
NUR 3142	Community Health in Nursing	20	30	10	20	10	10	-	-
NUR 3157	Nursing Clinical Attachment V	-	-	-	-	-	-	90	10

**Year 3 – Semester 2**

Course unit code	Course unit title	MCQ (%)	SEQ (%)	Assignment (%)	Viva (%)	Clinical long case (%)	Care studies (%)
NUR 3213	Pediatrics in Nursing II	40	60	-	-	-	-
NUR 3223	Gynecology and Obstetrics in Nursing II	40	60	-	-	-	-
NUR 3231	Dietetics in Nursing	-	80	-	20	-	-
NUR 3247	Nursing Clinical Attachment VI	-	-	-	-	90	10

**Year 4 – Semester 1**

Subject code	Course unit title	MCQ (%)	SEQ (%)	Assignment (%)	Viva (%)	Present ation (%)
NUR 4112	Leadership and Management in Nursing	20	50	10	20	
NUR 4123	Professional Development in Nursing	30	50	-	20	
NUR 4136	Research Project	-	-	Research dissertation - 80	-	20
NUR 4145	Nursing Elective Appointment	-	-	1. Case histories (02) - 20 2. Care study (01) - 40	20	20

**Year 4 – Semester 2**

Subject code	Course unit title	OSPE (%)	OSCE (%)	Clinical long case (%)	Care studies (%)
NUR 4214	Professorial Clinical Appointment in Medical Nursing	15	15	60	10
NUR 4224	Professorial Clinical Appointment in Surgical Nursing	15	15	60	10
NUR 4234	Professorial Clinical Appointment in Pediatric Nursing	15	15	60	10
NUR 4244	Professorial Clinical Appointment in Gynecological and Obstetric Nursing/Trauma and Emergency Nursing	15	15	60	10

## 7.5. Examination and evaluation structure of BPharm Honours degree course units

### Year 1 – Semester 1

Course unit code.	Course unit title	Theory (%)	Practical/ Hospital Practice (%)	OSPE (%)	VIVA (%)	Assignment/ Class test (%)
PH 1112	Pharmaceutical Chemistry I	80	-	-	-	20
PH 1123	Biochemistry I	60	-	30	-	10
PH 1132	Pharmaceutics IA	80	-	10	10	-
PH 1144	Human Biology I	60	-	30	10	-
PH 1152	Mathematics	80	-	-	-	20
PH 1163	Information Technology	50	40	-	-	10

### Year 1- Semester 2

Course unit code.	Course unit title	Theory (%)	Practical/ Hospital Practice (%)	OSPE (%)	VIVA (%)	Assignment/ Class test (%)
PH 1213	Pharmaceutical Chemistry II	80	-	-	-	20
PH 1222	Pharmaceutical Chemistry III	-	100	-	-	-
PH 1232	Biochemistry II	60	-	30	-	10
PH 1242	Pharmaceutics IB	80	-	10	10	-
PH 1254	Human Biology II	60	-	30	10	-
PH 1262	Biostatistics I	80	-	-	-	20

### Year 2- Semester 1

Course unit code.	Course unit title	Theory (%)	Practical/ Hospital Practice (%)	OSPE (%)	VIVA (%)	Assignment/ Class test (%)
PH 2114	Pharmaceutics II A	60	30	-	10	-
PH 2123	Pharmaceutics II B	60	30	-	10	-
PH 2134	Pathology and Pharmacology I	70	-	20	10	-
PH 2143	Biostatistics II	80	-	-	-	20
PH 2153	Pharmaceutical Microbiology	60	30	-	10	-



**Year 2 - Semester 2**

Course unit code.	Course unit title	Theory (%)	Practical/ Hospital Practice (%)	OSPE (%)	VIVA (%)	Assignment/ Class test (%)
PH 2214	Pharmaceutics III	60	30	-	10	-
PH 2223	Pharmacy Law and Ethics	80	-	-	10	10
PH 2232	Pharmacology II	70	-	20	10	-
PH 2244	Medicinal Chemistry & Pharmacognosy I A	65	35	-	-	-
PH 2254	Pharmacognosy I B	60	40	-	-	-

**Year 3 – Semester 1**

Course unit code.	Course unit title	Theory (%)	Practical/ Hospital Practice (%)	OSPE (%)	VIVA/ Mini Clinical Examination (%)	Assignment/ Class test/ Observational assessment (%)
PH 3113	Analytical Chemistry	60	30	-	-	10
PH 3125	Pharmacognosy II	50	30	-	10	10
PH 3134	Hospital & Clinical Pharmacy	50	20	10	20	-
PH 3142	Community Pharmacy I	50	20	20	10	-
PH 3153	Pharmacology III	70	-	20	10	-

**Year 3 – Semester 2**

Course unit code.	Course unit title	Theory (%)	Practical/ Hospital Practice (%)	OSPE (%)	VIVA/ Mini Clinical Examination (%)	Assignment/ Class test/ Observational assessment (%)
PH 3212	Pharmacology IV & Toxicology	70	-	20	10	-
PH 3223	Pharmacotherapeutics	50	20	20	10	-
PH 3233	Pharmaceutical Biotechnology	70	-	20	10	-
PH 3242	Management and Economics	80	-	-	10	10
PH 3253	Marketing and Accounting	80	-	-	10	10

**Year 4 - Semester 1 Industrial Pharmacy Stream**

<b>Course unit code.</b>	<b>Course unit title</b>	<b>Theory/ Report (%)</b>	<b>Practical / Hospital Practice (%)</b>	<b>OSPE (%)</b>	<b>VIVA/ Mini Clinical Examination (%)</b>	<b>Assignment/ Class test (%)</b>
PH 4112	Advanced Medicinal Chemistry I	60	30	-	-	10
PH 4123	Pharmaceutical Analysis	60	30	-	-	10
PH 4134	Pharmaceutical Technology	60	30	-	10	-
PH 4141	Cell Biology & Immunology	70	-	20	-	10
PH RPI	Research I	60	-	-	40	-

**Year 4 - Semester 2 Industrial Pharmacy Stream**

<b>Course unit code.</b>	<b>Course unit title</b>	<b>Theory/ Report (%)</b>	<b>Practical / Hospital Practice (%)</b>	<b>OSPE (%)</b>	<b>VIVA/ Mini Clinical Examination (%)</b>	<b>Assignment/ Class test (%)</b>
PH 4213	Advanced Medicinal Chemistry II	60	30	-	-	10
PH 4223	Quality Control	60	30	-	10	-
PH 4231	Molecular Genetics	70	-	20	-	10
PH 4242	Biopharmaceutics	80	-	10	10	-
PH RPII	Research II	70	-	-	30	-

**Year 4 - Semester 1 Hospital, Community & Clinical Pharmacy Stream**

<b>Course unit code.</b>	<b>Course unit title</b>	<b>Theory/ Report (%)</b>	<b>Practical / Hospital Practice (%)</b>	<b>OSPE (%)</b>	<b>VIVA/ Mini Clinical Examination (%)</b>	<b>Assignment/ Class test (%)</b>
PH 4112	Advanced Medicinal Chemistry I	60	30	-	-	10
PH 4123	Pharmaceutical Analysis	60	30	-	-	10
PH 4132	Applied Pharmacology	70	-	20	-	10
PH 4143	Community Pharmacy II	60	20	10	10	-
PH RPI	Research I	60	-	-	40	-

**Year 4 - Semester 2 Hospital, Community & Clinical Pharmacy Stream**

Course unit code.	Course unit title	Theory/ Report (%)	Practical/ Hospital Practice (%)	OSPE (%)	VIVA/ Mini Clinical Examination (%)	Assignment/ Class test (%)
PH 4212	Clinical Pharmacy	60	10	10	20	-
PH 4223	Quality Control	60	30	-	10	-
PH 4233	Hospital Pharmacy	60	20	10	10	-
PH 4241	Radiopharmacy	60	-	10	10	20
PH RPII	Research II	70	-	-	30	-

**7.6. Examination criteria****7.6.1. Grades allocated for course units**

Grades given at course unit examinations and grade point values (GPV) attributed to each grade are given below as per University Grant Commission circular (Commission circular No 901 dated 25<sup>th</sup> November 2008), following common credit and qualification framework are implemented.

Marks (%)	Grades	GPV
90 - 100	A <sup>+</sup>	4.0
80 - 89	A	4.0
75 - 79	A-	3.7
70 - 74	B <sup>+</sup>	3.3
65 - 69	B	3.0
60 - 64	B-	2.7
55 - 59	C <sup>+</sup>	2.3
50 - 54	C	2.0
45 - 49	C-	1.7
40 - 44	D <sup>+</sup>	1.3
30 - 39	D	1.0
00 - 29	E	0.0

**7.7. Pass in a course unit**

A candidate who obtains grade “C” or better for a course unit will be considered to have passed in that course unit.

A student who obtains grades of C-, D+, D or E, need to re-sit for the relevant course unit in the next available attempt for the purpose of passing the course unit

within the stipulated period of eight years. The highest grade given for such course units shall be the grade “C”.

#### **7.8. Awarding classes**

GPA score (using the results of the all 4 years) will be considered when awarding the degrees.

First Class (Honours)	GPA	3.70 and above
Upper second Class (Honours)	GPA	3.30 – 3.69
Lower Second Class (Honours)	GPA	3.00 – 3.29
Pass	GPA	2.00 – 2.99

In addition, refer the By-laws of each Degree Programme for other requirements of awarding classes.

#### **7.9. Release of results**

Results will be released within three months after examination is held. The results board comprise of the Dean, Assistant registrar, Head of the department and two academic staff members of each degree programme. Following the results board, the results will be sent to the Vice-chancellors for the senate approval.

#### **7.10. Verification of grades**

Students are given the opportunity for the verification of grades after releasing results of subject/course units within two weeks by submitting an application along with the receipt of payment of the prescribed fee. Further details of the process of the verification of marks are available at the faculty office. The final recommendation made by the committee appointed for the verification of grades will be submitted for the approval of the Senate of the University of Ruhuna. To request for the verification of grades, students must pay Rs. 500.00 per subject/course unit and if there is any change of the grades, the paid amount would be refunded.

## **CHAPTER 8**

### **Medals and Awards for Students**

#### **8.1. Annual student awards**

Vice-Chancellor's and Dean's awards shall be awarded annually to the students with the best overall performance in each faculty under the approved marking scheme. These awards are funded by the University and administered by the office of the Deputy Vice-Chancellor with the collaboration of Faculties and assistance of the Examinations and the Student Affairs branches.

#### **8.2. Dean's awards and Dean's list for overall performance**

Best five students in each batch from each faculty shall be selected under the approved marking scheme. Dean's awards shall be awarded to the best student in each batch under following categories at an award ceremony held at the faculty annually. A certificate of achievement (and a cash prize of Rs.10,000.00) will be awarded.

##### ***For non-medical students***

- Best 1<sup>st</sup> year student
- Best 2<sup>nd</sup> year student
- Best 3<sup>rd</sup> year student (including both general and special students)
- Best 4<sup>th</sup> year student (for special students of Faculties of Science and Humanities & Social Sciences, and students from Faculties of Agriculture, Allied Health Science, Engineering, FMST, Management & Finance and)

##### ***For medical students***

- Best 2<sup>nd</sup> MBBS student
- Best 3<sup>rd</sup> MBBS student
- Best Final MBBS student

Next four students in each batch who top the list under the approved marking scheme shall be included in the Dean's list and announced at the relevant Faculty Board. A certificate of achievement will be awarded to each student at an awards ceremony held at the Faculty.

### **8.3. The Vice Chancellor's award and Vice Chancellor's list for overall performance**

Student with the best overall performance who completed the degree from each faculty shall be selected under the approved marking scheme. Next two best students from each faculty shall be included in the Vice Chancellor's list.

A Gold Medal and a Certificate of Achievement shall be awarded. Students of graduating batch will be eligible for the Vice Chancellor's Award. The Gold Medal and the Certificate of Achievement will be awarded at the General Convocation.

Vice Chancellor's List for Overall Performance will include the next two students who top the list under the approved marking scheme from each faculty and shall be included in the Vice Chancellor's list and announced at relevant Faculty Board. A certificate of achievement will be awarded at an award ceremony held at the Faculty.

#### **8.3.1. Application procedure**

Students shall apply for the awards using an application form issued by the University. Application forms shall be available at the Dean's office and can be downloaded from the university website. Students shall submit certified copies of all the documentary evidence with the application.

Students shall submit their applications through their Mentors/Academic Advisors who shall certify the contents of the application. Students shall be prepared to participate in an interview, if the selection panel requests.

#### **8.3.2. Eligibility requirements**

##### **8.3.2.1. Academic requirements**

###### ***For Non-Medical students***

The students obtaining an average GPA required for a 2<sup>nd</sup> Class Upper Division or above in the first attempt of the relevant examination of the courses of study in each academic year will be eligible for an award.

###### ***For Medical students***

Students obtaining 2<sup>nd</sup> Class Upper division or above in the first attempt of the relevant examination of the courses of study will be eligible for an award.

##### **8.3.2.2. Other requirements**

- i. Any student who has been punished by the University and/or warned (in writing) by the Vice Chancellor or Deputy Vice Chancellor as found guilty for any misconduct shall not be eligible for an award.

- ii. The overall score achieved by the applicant shall be 70 marks or above for the Vice Chancellor's Award/List and 65 marks or above for the Dean's Award/List.

### **8.3.3. Selection criteria**

#### **8.3.3.1. Academic achievements (maximum 60 marks)**

##### ***For non-medical students***

Case 1: If the applicant has the highest GPA above the required GPA for 1<sup>st</sup> class or the required GPA for the 1<sup>st</sup> class, shall be given 60 marks and other student shall be given marks which are scaled down according to their GPA.

Case 2: If there are no students having highest GPA above the required GPA for 1<sup>st</sup> class or the required GPA for the 1<sup>st</sup> class, 60 marks shall be given for the required GPA for the 1<sup>st</sup> class and the other eligible students shall be given marks which are scaled down according to their GPA.

The average of the GPA obtained at each examination of relevant academic year shall be considered separately for the Dean's Award. The overall GPA obtained for all examinations shall be considered for the Vice Chancellor's Award.

##### ***For medical students***

Case 1: The applicant with the highest total aggregate above the required marks for the 1<sup>st</sup> class or the required marks for the 1<sup>st</sup> class which is higher shall be given 60 marks. The other eligible students shall be given marks which are scaled down according to their total aggregate.

Case2: If there no applicant having highest aggregate above the required marks for first class or the required marks for the 1<sup>st</sup> class, 60 marks shall be given for the required total aggregate for the 1<sup>st</sup> class and the other eligible students shall be given marks which are scaled down according to their total aggregate.

The total aggregate obtained at each examination of relevant academic year shall be considered separately for the Dean's award, the total aggregate obtained for all examinations (2<sup>nd</sup> MBBS, 3<sup>rd</sup> MBBS and Final MBBS) shall be considered for the Vice Chancellor's award.

### 8.3.3.2. Sports achievements

Maximum twenty marks shall be allocated for sports achievements as follows:

Description	Marks
World University Games/National Games	
First Place	20
Second Place	15
Third Place	10
Participation for an event (maximum up to 10 marks)	5
International Sports event representing the University	
First Place	10
Second Place	8
Third Place	6
Participation for an event	3
Inter University Events	
First Place	6
Second Place	5
Third Place	4
Participation for an event (Maximum up to 04 Marks)	2
Inter Faculty Events	
First Place	1.5
Second Place	1
Third Place	0.5
University Colors/ Best Athlete/ Player of the year	3
Post of President, Vice President, Secretary, Junior Treasurer, Editor of Sports Council	1/position/year

### 8.3.3.3. Other achievements

Maximum twenty marks shall be allocated for extra-curricular activities other than sports.

Description		Marks
Post of President, Vice President, Secretary, Junior Treasure and Editor of Student Unions/Societies/Associations		1 position for year
Participation at the "Kavitha" Talent Show or Equivalent event	First Place	10
	Second Place	8
	Third Place	6
Participation for an Event	Final Round	4



University approved event /competition/Orator/Singing/Dancing/Poetry Writing/Script Writing etc.) (Solo or Group)		
University Level	First Place	5
	Second Place	4
	Third Place	3
Faculty Level	First Place	2
	Second Place	1.5
	Third Place	0.5
Recipient of Patent		8
University approved Event Organizing		0.5
Inter University Level Competition/Awards	First Place/Best Award	6
	Second Place	5
	Third Place	4
	Fourth Place	
Approved University representation at International Forum/Event		5
Paper accepted/presented at any Conference/Symposia		3
Publication of Books / Holding of Individual Exhibition (Paintings/Arts/Hand crafts/etc.)		2
Contribution to official function of the University		0.5

Special Note:

If the overall score achieved by two or more candidates for the Vice Chancellor's Award is equal, special panel consisting Vice Chancellor, Deputy Vice Chancellor and Dean of the relevant Faculty shall re-evaluate the candidates to select the best student.

#### **8.4. Gold Medal for the student with best overall academic performance of Faculty of Allied Health Sciences (Indian High Commissioner's Annual Gold Medal)**

For the graduate who has outstanding academic performance with a first class or second-class upper division who obtained in the first attempt with the proper batch of each degree programme are awarded "Indian High Commissioner's Annual Gold Medal" awarded by the High Commissioner of India.

Selection criteria for awarding the Gold Medal for the student with best overall academic performance approved by the Senate at its 349<sup>th</sup> meeting.

1. Highest GPA value.
2. First class or second-class upper division in overall result.
3. All the course units are completed in the first attempt with the proper batch\*\*.
4. All requirements for the degree programme are completed during four academic year period.
5. No disciplinary actions against the student.
6. No violation of examination regulations.
7. Certificate from the Head of the Department regarding good conduct and behavior of the student.

Clarification

*\*\* Students must have passed all the course units with the proper batch for awarding the gold medal. Students who have not passed the examination at the first attempt with the proper batch but subsequently passed it at first attempt with the junior batches after giving medical or some other excuse will not be considered for the gold medal.*

## **CHAPTER 9**

### **Library Facilities**

#### **9.1. Introduction**

The Library of University of Ruhuna being a central research library in the southern region of Sri Lanka caters a vast variety of communities in the country. The Ruhuna University Library has five branched libraries in addition to the Main Library, which serve the Faculty of Agriculture at Mapalana, Faculty of Engineering at Hapugala, Faculty of Medicine at Karapitiya, Faculty of Technology at Kambrupitiya and Faculty of Allied Health Sciences at Mahamodara and Uluvitike.

Main Library located in the Wellamadama university premises serves the communities of five faculties; Faculty of Humanities and Social Science, Faculty of Fisheries and Marine Science & Technology, Faculty of Science, Faculty of Management and Finance and Faculty of Graduate Studies. In addition, services are extended to outside communities.

The Allied Health Sciences Library is located in the ground floor of the Department of Nursing at Mahamodara and another library unit is located at the Uluvitike premises. The library contains approximately 5,000 books in the two locations for reference and lending.

#### **9.2. Staff of the library**

Staff of the Allied Health Sciences Library of University of Ruhuna consists of one Academic staff member and five Nonacademic staff members.

Academic Staff Members	Mr. N. Hettiarachchi
Librarian (University of Ruhuna):	BSc (Hon) (RUH) MSSc (Lib & Inf Sci) (KLN)
Senior Assistant Librarian:	Ms. H.E.P. Mayuri
(Faculty of Allied Health Sciences):	BSc Sp in Mathematics (UoK), MIT Rd (UoK)

Supportive staff members of the Library service (Faculty of Allied Health Sciences)

Library information Assistant: Ms. W.D.H.P. Guruge  
Library information Assistant: Ms. V.S.D. Gamage  
Library Information Assistant: Ms. P.V.A.C. Helani  
Library Attendant: Mr. D.N.R. Kalahewaththa  
Library Work Aid: Mr. D.W.G.M. Siriwardhana

### 9.3. Library opening hours

Opening hours of the library are as follows:

Weekdays - 8.30 a.m. - 6.00 p.m.

Saturdays - 8.30 a.m. - 5.00 p.m.

Public holidays - Closed

Note - Opening hours of library may be revised during the examination period.

### 9.4. Library collections

The library has a collection of permanent reference, schedule reference, lending books, journals, past papers, thesis and dissertations. Permanent reference materials such as encyclopedias, dictionaries, glossaries, Color Atlas and other valuable books are intended strictly for reference within the library. These materials are labeled as “R” in red color on the spine.

Schedule reference collection materials are issued for overnight use. These materials are labeled as “R” in blue color on the spine. Schedule reference collection materials could be borrowed and should be returned on next working day of the library. The lending collection contains library books that can be borrowed.

### 9.5. Library resource classification

The library materials in the University of Ruhuna Library are organized according to the Dewey Decimal Classification (DDC) system. DDC helps to arrange library materials by subject discipline.

The main classes of DDC are as follows:

DDC number	Subject Discipline	Allied Health Sciences student most related subject discipline DDC numbers	
000	Computer science and general works	540 Chemistry and Allied Sciences	610 Medical Sciences
100	Philosophy and psychology	541 Physical and theoretical chemistry	611 Human anatomy, Cytology, Tissue Biology
200	Religion	542 Chemical laboratories,	612 Human Physiology

		equipment	
300	Social Sciences	543 Analytical chemistry	613 Health education
400	Language	544 Qualitative chemistry	614 Public health and related topics
500	Natural sciences and mathematics	545 Quantitative chemistry	615 Pharmacology and therapeutics
600	Technology (Applied science)	546 Inorganic chemistry	616 Diseases
700	Arts; Fine arts and decorative arts	547 Organic chemistry	617 Surgery and related topics
800	Literature and rhetoric	548 Crystallography	618 Gynecology and obstetrics
900	Geography and history	549 Mineralogy	619 Experimental medicine

## 9.6. Library catalogue

An Online Public Access Catalogue (OPAC) is a computerized online database of all the resources held at the library. Users can use OPAC to search library materials available in the library. It can be accessed by the URL: <https://opac.lib.ruh.ac.lk/cgi-bin/koha/opac-main.pl>. OPAC provides facilities to search library materials using keywords, title, author, subject, ISBN, series and call number.

## 9.7. Library services

### 9.7.1. Ask a Librarian Service

Senior Assistant Librarians and Assistant Librarians of the University of Ruhuna provide reference services to the users with direction to library materials, assistances on library collections and searching multiple kinds of information from various sources.

### 9.7.2. Inter-Library Loans (ILL)

Any book or research articles in journals that are not available in the University of Ruhuna Library, but available elsewhere, could be obtained via inter-library loan.

Readers who want to obtain this facility can use the application available at the Library Office.

### **9.8. Library membership**

Full membership of the library is available to all registered undergraduate and postgraduate students of University of Ruhuna. All students are required to register at the library by using the application form provided.

### **9.9. Borrowing library resources**

With the exception of certain categories (i.e. Permanent reference materials, dictionaries, Atlases, books under special collections etc.) all other books may be borrowed. The university record book or identity card must be produced when borrowing books. Books should be borrowed before 5.00 p.m. Lending collection books are issued for a period of one week for students. However, it can be extended for another week through the student online library account (OPAC) of the "ISURU" database.

Details about the number of books that can be borrowed are given in the following table.

Number of books can be borrowed by students

<b>Undergraduate Year</b>	<b>Lending books</b>	<b>Reference books</b>	<b>Total books</b>
First year	02	01	03
Second Year	03	01	04
Third Year	03	02	05
Final Year	04	02	06

### **9.10. Returning library resources**

Borrowed books must be returned by or before 5.00 p.m. on the due date. Borrowers remain responsible for books that are issued to them. If an issued book is lost or damaged, the matter should be reported to the library immediately. Borrower has to replace it with a new copy of the same edition or subsequent edition within the due date. If the book is not available in the market, the borrower will be charged for the replacement cost of the book and a processing fee of 25% of the value of the book.

All library resources borrowed must be returned and all outstanding fines must be paid when a student leaves the university. The degree certificate will be withheld until they return the borrowed resources and pay the fine.

### **9.11. Fines and payments**

User library fines are calculated by the library system. User account is automatically restricted for book issuing when the fine reaches Rs. 200.00. Student should settle the fines for activation of the restricted account. Only library working days are considered for calculation of library fines. A fine of Rs. 5.00 per day will be charged in respect of each book borrowed from lending collection, if not returned by the due date. A fine of Rs. 24.00 per day will be charged in respect of each book borrowed from schedule reference collection if not returned by the due date. All payments should be made to the Shroff of the Faculty.

### **9.12. Library site map**

<https://www.lib.ruh.ac.lk/web/AHS/index.php>

### **9.13. New updates**

The UGC consortium subscribed Academic journal databases can be access by the library users since August 2020 with the implementation of LEARN internet service at Uluwitike premises.

The eBook subscription service started for according to the user requirement. Currently, the Library University of Ruhuna subscribes the 127 eBooks in 2020.

The document delivery service started to provide user required books and journal materials as softcopy version.

## **CHAPTER 10**

### **Learning Resources**

#### **10.1. The cultural center**

This center functions in collaboration with the Ministry of Cultural Affairs. It consists of an Aesthetic Unit and a Research Unit.

Aesthetic unit helps to promote aesthetic sensitivity, creative skills among the university population. The unit conducts classes on oriental music, western music, violin, dancing, cinematic study, literacy efficiency, drawing and sculpting from 4.00 p.m. to 6.00 p.m. on weekdays and from 9.00 a.m. to 4.00 p.m. at weekends. Research Unit, researches and conserves the regional cultural features and heritage of national importance. It is further expected to undertake activities to conserve the regional folk arts and folklore, to collect and conserve the cultural features endemic to this region, to publish classical articles and make documentary films on the traditional performing arts of the South and the artists of the South. A separate Faculty Coordinator is appointed for the cultural center to facilitate the students for cultural center activities

#### **10.2. English Language Teaching Department (ELTD)**

ELTD functions under the Faculty of Humanities and Social Sciences, employing a set of visiting instructors in addition to the permanent staff. It caters to all the faculties, facilitating the undergraduates to improve their English knowledge and become resourceful graduates. Apart from that a separate academic coordinator for the Development Programme of English for new entrants and Continuous English Programme of the Faculty is appointed to coordinate the activities in the Faculty.

#### **10.3. Resource Centre for Modern Languages (RCML)**

Resource Centre for Modern Languages was established in April 2002 with the aim to provide students with opportunities to study various languages other than “Sinhala” and “English”.

The activities of this center are coordinated and looked after by a committee of academics, which includes a Coordinator (Ms. R Malavipathirana) and one representative from each Faculty of the University. Presently, the Language center conducts classes and the languages of French, German, Japanese, Tamil and Swedish for students with the help of resource persons available in the University academic community. RCML is offering a Japanese language course for the students in FAHS annually.



#### **10.4. Management Information System - MIS**

The Management Information System of the FAHS (FAHS-MIS) is an initiative taken for converting the conventional registration documenting activities to an online system for the purpose of improving the convenience of user access. This system grants access to Undergraduate/ Postgraduate Students, Dean, Heads of Departments, Academic Staff, Assistant Registrar, Senior Assistant Librarian, Academic Supportive Staff and Non-Academic Staff. Many activities related to students can be conducted through the FAHS-MIS online.

An account is assigned for each student registered in the FAHS. Students can access their account by entering the respective username and password (which would be facilitated by the Faculty administration) to the FAHS-MIS website found through the following URL.

<https://paravi.ruh.ac.lk/foahsmis/index.php>.

Using FAHS-MIS, students can perform the following functions.

- Register for course units
- Register for semester examinations and repeat examinations
- View the registered modules
- View the results of completed modules
- View the eligibility for examinations, semester continuation and credit achievement
- View notices of FAHS

#### **10.5. Learning Management System – LMS**

The Faculty has a sophisticated and well-managed learning management system (LMS) for the teaching and learning activities in each academic semester. LMS facilitates different modes of activities such as quizzes, discussion forums, etc in teaching and learning activities. Further, important announcements and notices are also available for students via LMS.

An account is assigned for every student registered in the FAHS. A student can access their account by entering their respective username and password to the LMS website found through the URL.

<http://lms.ahs.ruh.ac.lk/my/>

## **CHAPTER 11**

### **Sports and Recreation**

#### **11.1. Physical education**

Students have opportunity to engage in physical education activities conducted by the Department of Physical Education, University of Ruhuna. There is a physical education instructor in the FAHS to get further assistance for students' in physical education activities. Students can use all the sports facilities available in the FAHS, Faculty of Medicine/Engineering and University of Ruhuna.

#### **11.2. Facilities for sports**

Currently Physical Education Department provides facilities for following indoor and outdoor sports. These are made available free of charge to all students.

##### **Indoor sports**

1. Basketball (men and women)
2. Badminton (men and women)
3. Table tennis (men and women)
4. Weightlifting (men and women)
5. Volleyball (men and women)
6. Chess (men and women)
7. Taekwondo (men and women)
8. Carrom (men and women)
9. Netball (women)
10. Wrestling (men)
11. Karate (men and women)

##### **Outdoor sports**

1. Athletics (men and women)
2. Hockey (men and women)
3. Elle (men and women)
4. Cricket (men)
5. Football (men)
6. Rugger (men)
7. Swimming (men and women)
8. Tennis (men and women)
9. Baseball (men)

### **11.3. Sports events**

There are annual sports events such as Inter-Faculty and Inter-University tournaments. In addition, Sri Lanka University Games (SLUG) is held at a selected University once in three years. Students are also have opportunities to participate in the World University Games and Asian University Championships, which are held once in two years.

### **11.4. Recreational activities**

The university annually organizes events and competitions for talented students in different extra-curricular fields to enhance the entertainment and soft skills of the students. Events are organized under following categories,

1. Orator
2. Dancing
3. Literature
4. Vocal and instrumental music

Students can apply for these competitions once they are advertised. The winners will be awarded.

Students have freedom to organize sports events, social gatherings, religious and cultural events and etc. with permission from the Dean of the Faculty.

Pool of musical instruments and sound accessories are available with the Faculty to enhance the entertainment activities of the students.

## **CHAPTER 12**

### **Student Service Facilities**

#### **12.1. Student affairs branch at the university**

There is a Student Affairs Branch with a Senior Assistant Registrar at the university to look after the needs of the students outside their courses. Many services such as registration of the students, Mahapola scholarships, bursaries, student hostels and cafeterias are operated by the Student Affairs Branch. In addition, this branch provides other important services namely, student counseling and health service.

#### **12.2. Student counseling service**

The mission of the counseling service is to provide services and programmes, which promote the personal development and psychological well-being of students, and to encourage a university atmosphere conducive to growth and which maximizes students' educational attainments. The students have the opportunity to discuss their various mental, economic, social matters, or any other matters which they face during their University education.

Counselors, who are senior academics, offer their assistance, advice and guidance to those students in need. Each faculty has its own group of student counselors. In addition, students also have the opportunity to discuss their problems with other academics.

Senior Student Counselor of the University  
Prof. A.B. Sirisena

Deputy Senior Student Counselor of the FAHS  
Dr. B.I. Wickckramarachchi

Student Counselors of the FAHS

Dr. S M T D Sundarapperuma	Ms. A M S S Amarasiri
Dr. R H M P N Rathnayake	Ms. L L Sandamali
Ms. G A M Prasadi	Dr. W B N T Fernando
Ms. A D S S Karunanayake	Dr. N D D Silva
Dr. E H Silva	

### **12.3. Mentoring services**

FAHS possess an established mentoring service to the students, where every student is allocated to an academic mentor at the beginning of their university life. All mentors work in-line with an established TOR to provide the support to students when necessary. The students should regularly meet their mentors especially on Wednesdays; students are allocated free time to meet their mentors in the time tables. Further, all the documents submitted by the students are subjected to be forwarded through the mentor.

### **12.4. Handling grievances**

Grievance Committee of the Faculty of Allied Health Sciences was established in accordance with the Dean's recommendation in the year of 2019. The Grievance Committee of the Faculty is recognized with an aim to provide easy and readily accessible procedure for prompt disposal of the day to day genuine grievances of the students to maintain a congenial atmosphere.

Any student with a genuine cause of distress may submit his/her grievance in writing to the Chairperson, Faculty Grievance Committee, Faculty of Allied Health Sciences, University of Ruhuna. The written grievances should be submitted in a sealed envelope addressed to the Chairperson, Grievance Committee, Faculty of Allied Health Sciences, University of Ruhuna. The sealed envelope should be handed-over to AR office of Faculty of Allied Health Sciences.

Grievances will be addressed systematically with active involvement and cooperation of all the committee members appointed by the Faculty Board annually.

### **12.5. Compliant/grievance reporting system**

Students experience different kinds of complaints/grievances during the University life such as financial difficulties, degree programme/teaching learning related issues, ragging, sexual harassment, bullying, sexual or gender based violence, threats and intimidation. These incidents have often turned the university career into a frightening and distressing experience and students encounter various difficulties to complete their higher education during the stipulated time period.

Grievance Committee of FAHS introduced an online complaint/ grievance reporting system to lodge a complaint regarding above matters. All complaints that are lodged will reach the Grievance Committee of FAHS and will be forwarded to the relevant supportive personnel such as Dean, Deputy Proctor, Deputy Senior Student Counselor or Student Counselors where necessary depending on the nature of the complaint/grievance and it will be carefully investigated.

Protection and support will also be provided by the Faculty to the student who has made the complaint/grievance to ensure that he/she is not further victimized as a

result of the complaint/grievance. The person who makes the complaint/grievance will start receiving support from the moment the complaint is lodged. Further, victims of such incidents will be offered support and compensation. Support may take the form of counseling, ensuring safety and protection, or any other way to support continuation of education.

Online complaint system is available on the faculty website through the following URL.

<http://www.ahs.ruh.ac.lk/ahs/GCRS/>

#### **12.6. Health services**

The students at FAHS can easily obtain the medical services from the Out Patients' Department (OPD) of Teaching Hospital Karapitiya and Teaching Hospital Mahamodara free of charge. Apart from that, a separate medical officer is appointed for the Faculty to obtain medical advices in emergency situations.

Every student of the university at the first enrollment must face a medical test. The aim of this test is to determine whether the student has suitable health condition to continue the academic career without difficulties. If a student is found to be suffering from a severe disease, he/she is directed to special clinics in the hospital for treatments.

If a student is unable to sit for the exam due to an illness, he/she should inform the University medical officer and examination branch immediately. The medical certificates obtained from outside medical officers should be submitted to the examinations branch within three days with the approval of the University medical officer. Whenever necessary, students should follow the above procedure in producing medical certificate for smooth functioning of their education during stipulated period of study.

#### **12.7. Hostel facilities and policy**

The 1<sup>st</sup> and final year students are eligible for hostel facilities. Separate accommodations are available for girls and boys. Students are selected for the hostels based on their annual family income, distance, disability and number of educating siblings in the family.

#### **12.8. Bursary policy and other scholarships**

The 'Mahapola' scholarship is awarded by the Mahapola Trust Fund, and students are selected primarily based on their merit order and the parental income. The bursary scheme is provided for the students with low parental income. The recipients are selected according to University selection criteria.

## **CHAPTER 13**

### **Career Guidance Unit**

#### **13.1. Introduction**

Career guidance for undergraduates in universities has been recognized as a matter of policy by the Government of Sri Lanka. At the University of Ruhuna, the Career Guidance Unit was set up in March 2000 to provide career guidance services to the undergraduates. Since then, the unit has organized various types of events including workshops and training sessions to develop the attitudes and skills of the undergraduates to motivate them perform smart and manage their academic life and personal life.

Meanwhile, many training sessions are being regularly conducted to make them ready for the industry and be best suited to capitalize the career opportunities in the industry. The unit has developed a wide range of network and industry links with many private sector organizations and government institutions to facilitate productive interaction between the undergraduates and such institutions with the purpose of providing industrial training and career opportunities for the benefits of the undergraduates.

#### **13.2. Staff of Career Guidance Unit**

This unit comprises of a Director, Faculty Career Advisors and Career Guidance Counselors as mentioned below.

Director	Dr. T. Gunawardana Senior Lecturer Tel. Office: 041-2222681, Ext: 2132, Mobile: 071 8577625 E-mail: gunawardan@badm.ruh.ac.lk
Faculty Career Advisor, FAHS	Ms. A.D.S.S. Karunanayake/ Senior Lecturer Department of Nursing Faculty of Allied Health Sciences Tel: 091 2232896 Mobile: 0718703530 E-mail: shashika@ahs.ruh.ac.lk
Career Guidance Counselor	Ms. V. Welihena BMS (Hons.) OUSL, Dip. In Mgmt-OUSL, Ad.Cer in Counselling Psychology Mobile: 077-3838663 E-mail:vindyawelihena81@gmail.com

Special programmes conducted by the Career Guidance Unit for the students is catering to the students with many interesting and worthwhile programmes to groom students as well demanded citizens by the corporate sector. There are different programs offered time to time as:

- Certificate Course in Soft Skills development
- Outbound and leadership training sessions
- Table etiquettes and etiquette training sessions
- Art/drama therapies and photography for personal development
- Personal branding and business etiquettes sessions
- Career Fair in supporting students' internships and employment opportunities
- Industry forums
- Workshops for professional CV writing and mock interview rounds
- Career related personalized counseling
- Various Corporate Social Responsibility (CSR) projects

Despite of the above, there are many more attractive opportunities for the students who wish to work with the University Career Guidance Unit. The students are warmly welcome to the unit or contact faculty coordinator to get frequent updates about the on-going programs



## **CHAPTER 14**

### **Student Union and Societies**

According to the amended University act of 1988, Section 26, students of each Faculty can form a Faculty Union comprised of all students of the Faculty. The main objective of this union is to promote academic actions, to safeguard the rights of the students, to work for the advancement and welfare of the students and the faculty.

#### **14.1. Student union of Faculty of Allied Health Sciences**

The Allied Health Science Students Union (AHSSU) comprises of eight student representatives and an academic staff member as the senior treasurer. The committee meets monthly and provides a forum for students to raise any issues related to student welfare. It is an organization functioning under the norms and regulations of the University of Ruhuna. The Student Union involves in student welfare issues and organize charitable programmes such as blood donation camps in the faculty and the community, and promotes cultural and creative activities among the students.

#### **14.2. Student societies**

Since the faculty was formed recently, constitutions are being developed to form the following societies to enhance soft-skills, recreational activities, and professional and leadership skills of students of FAHS. The students will be able to obtain the membership of these societies.

##### **1. Sports Association**

Sports association of the FAHS is established to enhance the sports activities of the students. The key positions of the sports association of FAHS are hold by the students in any academic year while the executive committee comprised with the representation of students involving with the different games. Faculty captains of each game are executive committee members. Especially the president and secretary are the university sport council representatives of the Faculty (Faculty sports male and female captains). All the activities carried out by the sports association, FAHS are supervised by the senior academic staff member (Faculty sports advisory board member) who is act as the senior treasure.

The objectives of the art circle of FAHS are,

1. To develop sports facilities for students in the Faculty.
2. To encourage the participation of students for sport activities.
3. To organize Faculty sports activities and competitions.

4. To maintain and administer existing facilities available for sports in the Faculty.
5. To enhance student education by offering recreational activities.
6. To develop the harmony among the students.

## **2. Art Circle**

Art circle of the FAHS is established to enhance the aesthetic activities of the students. The key positions of the art circle of FAHS are hold by the students in any academic year while the executive committee comprised with the representation of all batches. All the activities carried out by the art circle, FAHS are supervised by the senior academic staff member who is act as the senior treasure.

The objectives of the art circle of FAHS are,

1. To improve aesthetic and entertainment facilities in the faculty
2. To fund aesthetic and entertainment activities of the faculty
3. To promote aesthetic and entertainment activities and improve participation in aesthetic activities among university students
4. To maintain, administer existing facilities available for aesthetic and entertainment activities in the faculty
5. To maintain a liaison with other local and national aesthetic associations
6. To advice the FAHS on developing aesthetic and entertainment activities

## **3. Ruhuna Nursing Student Society**

Ruhuna Nursing student society of the FAHS is established to enhance relationships among nursing undergraduates and to move them to the outreach activities mainly. The executive committee of the Ruhuna nursing student society comprises of undergraduates representing all the batches. All the activities carried out by the Ruhuna nursing student society are supervised by two senior academic staff members of the Department of Nursing who act as the patron and senior treasurer.

The objectives of the Ruhuna nursing student society are,

1. To develop a scientific thought in the field of nursing and integrate research into practice
2. To create a forum for exchanging ideas and knowledge among members
3. To facilitate opportunities to conduct joint research
4. To facilitate dissemination of standards, competencies and best practice guidelines for specialized knowledge

#### 5. To improve community engagement and services

The activities of the Ruhuna nursing student society are,

The Ruhuna nursing student society organize activities related to discipline of Nursing (Workshops, Discussions, Fora, Exhibitions, Quiz programmes, Debates, Community services etc.). The activities shall be arranged within the faculty or beyond the faculty level. The specific activities shall be arranged by Ruhuna nursing student society are,

1. Encourage research work and dissemination of findings.
2. Conduct workshops/seminars to disseminate standards, competencies and best practice guidelines for specialized knowledge and to improve the aspects of applied practices.
3. Launch newsletters, wall papers related to the areas of interest.
4. Conduct joint activities (exhibitions, community services, quiz programmes, debates) with senior members, scientists, health care professionals and academics.

#### **4. Ruhuna University Pharmaceutical Student Society**

The “Ruhuna University Pharmaceutical Student Society”, is abbreviated as “RUPS”.

Aims and Objectives of this society are,

1. To facilitate and promote the advancement, appreciation, and understanding of Pharmacy discipline,
2. To facilitate and promote the interpersonal relationships between university undergraduates, academic community and undergraduates from other universities,
3. To facilitate, disseminate knowledge, and promote Pharmacy related activities in the community.

All the full-time undergraduate students of the Department of Pharmacy, all the postgraduate students attached to the Department of Pharmacy, all the permanent and temporary academic members of the Department of Pharmacy can get the membership of the society.

#### **5. Ruhuna Medical Laboratory Science Student Society**

The Ruhuna Medical Laboratory Science Student Society, may be referred to as “Ruhuna MLS Student Society” is comprised of all students and staffs engage with BSc MLS degree programme in the University of Ruhuna.

The Ruhuna MLS Student Society consists of founder members, life members, and regular members, honorary members. Patron is the Head of the Department of MLS and Senior Treasurer of the society is one of the senior lecturers in the Department of MLS, University of Ruhuna. The executive committee consists of President, President Elect, Honorary Secretary, Assistant Secretary, Junior Treasurer, Journal Editor and Four Committee Members (representative officers from each batch) appointed from the undergraduates who registered for the B.Sc. MLS degree programme.

The objectives of the Ruhuna MLS Student Society are to

1. Promote advancement of Medical Laboratory Sciences in Sri Lanka.
2. Facilitate continuous professional development of Medical Laboratory Scientists.
3. Facilitate interaction between the degree programme and the community.
4. Create a platform for students to improve their scientific education by providing relevant information and guidance.
5. Schedule visits to accredited medical laboratories.
6. Create a network or a link between the members alumnae and the students for facilitation of faster job marketing and advisory aspect on job market.
7. Conduct social and cultural activities with the membership.
8. Create links and work together with the other professional bodies related to the Medical Laboratory Sciences

## **ANNEXURE**

### **ANNEXURE 1**

**Guidelines for actions to be taken for student absenteeism, unsatisfactory performance and unbecoming conduct during the clinical appointments of Department of Nursing, Faculty of Allied Health Sciences, University of Ruhuna**

#### **SECTIONS**

1. Criteria for determining absenteeism
2. Actions for being absent for a period of time
3. Actions for unsatisfactory performance and unbecoming conduct
4. Reporting to Dean

#### **1. CRITERIA FOR DETERMINING ABSENTEEISM**

**100% attendance is compulsory for clinical training.**

Students are allowed to be absent for clinical appointments due to following mentioned reasons.

- 1.1. A disease condition of the student
- 1.2. To sit for any repeat subject in any examination (Only the day of the examination will be allowed)
- 1.3. To participate in university approved events (Only the day of the event will be allowed or as decided in a Department meeting)
- 1.4. Death of an immediate family member such as siblings, parents, grandparents, spouse and in-laws.
- 1.5. Any acute debilitating disease condition of an immediate family member up to two weeks.
- 1.6. Marriage of the student or marriage of an immediate family member such as siblings.

A valid medical certificate should be submitted for an illnesses of the student (1.1). Relevant documentary proof must be submitted to prove participation in any repeat examination (1.2). To prove participation in university approved events, relevant documentary proof must be submitted (1.3). A copy of the death certificate should be submitted in the case of a death of a family member (1.4). A valid proof must be submitted for the matters related to family members (1.5). A copy of marriage certificate should be submitted in the case of the marriage of the student or the marriage of an immediate family member (1.6). All requests will be considered in a department meeting.

## **2. ACTIONS FOR BEING ABSENT FOR A PERIOD OF TIME**

### **2.1.**

**One week appointments** (One week or less than one week appointments),

**Two week appointments** (Two week or between one to two weeks appointments),

**Two to four weeks appointments**

Following rules will be applied for all the above appointments.

#### **2.1.1. With a valid reason**

Absent duration must be covered up at the end of the each appointment during weekends and holidays of the same week of the appointment. If the number of days of absenteeism is one day, the cover up should be done on Saturday. If the duration of absenteeism is more than two days, cover up should be done during the same weekend and following consecutive weekends. All the absentees will be allocated in groups during cover up training.

#### **2.1.2. Without a valid reason**

An additional training is stipulated. The student has to perform additional training for an extra number of days equivalent to the number of days of absenteeism, in addition to cover up for the absent period.

Absent duration and additional training must be completed during weekends and holidays of the same week of the appointment. If the duration of absenteeism is more than one day, cover up should be done during the same weekend and following consecutive weekends. All the absentees will be allocated in groups during cover up training.

If a student gets absent in 60% or more of the training days during **one week appointment**, the student must repeat the whole appointment.

If a student gets absent in 80% or more of the training days **during two week or two to four weeks appointments**, the student must repeat the whole appointment.

### **2.2. More than four weeks of appointments**

#### **2.2.1. Being absent for a short duration (Less than or equal to 5 days) with a valid reason**

Absent duration must be covered up at the end of the appointment as groups by the absentees.

### **2.2.2. Being absent for a short duration (Less than or equal to 5 days) without a valid reason**

Absent duration must be covered up at the end of the appointment as groups by the absentees.

Additional training will be stipulated. Student has to perform additional training for an extra number of days equivalent to the number of days of absenteeism, in addition to cover up for the absent duration.

### **2.2.3. Being absent for a long duration (More than 5 days) with a valid reason**

Absent duration must be covered up at the end of the appointment as groups by the absentees.

If the remaining time duration is not sufficient to cover-up the whole absent period before the beginning of the end semester examination and, if the student had demonstrated good conduct, course of action for the rest of the training will be decided in a department meeting.

### **2.2.4. Being absent for a long duration (More than 5 days) without a valid reason**

Absent duration must be covered up at the end of the appointment as groups by the absentees.

Additional training will be stipulated. Student has to perform additional training for an extra number of days equivalent to the number of days of absenteeism, in addition to cover up for the absent duration.

Only if the student covers the absent duration before the examination, he/she will be allowed to sit for the examination.

If the absent period exceeds 80% or more, the student has to repeat the whole appointment.

Student will not be eligible to sit the examination until training is completed.

## **3. ACTIONS FOR UNSATISFACTORY PERFORMANCE AND UNBECOMING CONDUCT**

**Student's performance and conduct will be considered unsatisfactory if**

### **3.1**

- 3.1.1. the student wears ornaments and bangles during the clinical training
- 3.1.2. the dress is not neat and tidy
- 3.1.3. the student wear dirty uniforms (dress, shoes, caps and socks)
- 3.1.4. the student has not neatly combed/ tightened the hair

3.1.5. the student has tinted her/his hair (coloured hair)

3.1.6. the student is with a beard or moustache

3.1.7. the student has not cut his/her nails and/or if he/she has applied nail paint

The ward in charge has the authority to refuse clinical training of the student in the above mentioned circumstances. Clinical training will be resumed once the criteria are fulfilled. In that case, refused/absent days need to be covered up.

### **3.2.**

3.2.1. the student is not punctual for clinical training

Students must be punctual for the clinical training and must be at the ward five minutes before the appointment time and need to stay until the designated time is over. Late attendance will be considered as an absent day which needs to be covered up.

### **3.3.**

3.3.1. the student stays outside the ward/ unit without permission

During the training hours, students are not allowed to leave the ward without prior permission of the ward in charge.

If students are found to be absent during supervision time without informing the ward in charge, the day will be considered as an absent day and it needs to be covered up.

### **3.4.**

3.4.1. the student become absent without informing the clinical/academic coordinator

Students should inform the clinical/academic coordinator prior to being absent for clinical training. This should be done at least thirty (30) minutes before the time of the commencement of clinical training of the day. Students should obtain prior permission by submitting a letter of request for previously planned matters. In urgent cases, short messages (SMS) and/or telephone calls are acceptable.

During the final year appointments, students should inform both the clinical/academic coordinator and ward in charge/ward sister as well at least 6 hours prior to being absent for clinical training if not due to an emergency. In an emergency, it should be informed as soon as possible.

If any student becomes absent without prior permission, the student should undergo additional training for one day.

### **3.5.**

3.5.1. the student record fake/false hours/duration of clinical training in the attendance register



- 3.5.2. the student signs attendance for a previous day on which student was absent
- 3.5.3. the student signs for other students' attendance
- 3.5.4. the student forge the signature/s of teaching and supervision staff

This will lead to a disciplinary inquiry. In above instances, an inquiry is initiated and the student will be allowed to sit for the examination but results will not be released until the inquiry is over.

### **3.6.**

- 3.6.1. the student demonstrates disruptive and/or unethical behaviour

This will be informed to the Dean and will lead to a disciplinary inquiry. In above instances, the student will be allowed to sit for the examination but the results will not be released until the inquiry is over.

### **3.7.**

- 3.7.1. the student is found to be under the influence of liquor and/or drugs

This will be informed to the Dean and will lead to a disciplinary inquiry. In above instances, the student will be allowed to sit for the examination but results will not be released until the inquiry is over.

## **4. REPORTING TO DEAN**

### **4.1. Minor misconducts (3.1, 3.2, 3.3, 3.4, 3.5)**

The Head and clinical/academic coordinator to take appropriate actions after discussing with other academic staff members of the department at a department meeting considering the nature of the offence.

### **4.2. Major misconducts (3.6 and 3.7)**

The Head and the clinical/academic coordinator should take immediate suitable actions depending on the nature of the offence and inform the Dean and arrange an inquiry either within the Department or by the Dean depending on the nature of the offence.

**THIS GUIDELINE WILL BE FOLLOWED UP WITH EFFECT FROM 1<sup>st</sup> January 2020.**

## ANNEXURE 2

### General Rules and Regulations for University students

General rules applicable to undergraduates are given below. A more comprehensive list of rules issued by the University of Ruhuna is given separately.

1. Any change of your permanent address must be immediately brought to the notice of the Dean/Assistant registrar.
2. Students should inform the Dean/ Assistant registrar of any change in their registered address, as early as possible.
3. No student is permitted to be absent from work for more than one week without informing the Dean/Head of the department.

4. In case of illness

a. *Illness during the academic term/at examinations*

If a student has fallen ill during the academic term or just before or during any part of an examination, he/she should inform the Head of the Department or the Dean in writing by registered post as early as possible, AND submit within ONE WEEK of falling ill, a valid medical certificate issued by one of the persons listed under (b) below.

b. *Persons/institutions entitled to issue valid medical certificates for the above purposes*

- (i) University Medical Officer of the Faculty of Medicine.
- (ii) A consultant in any government hospital.
- (iii) A District Medical Officer (DMO) in a government hospital.
- (iv) A medical certificate issued by a Teaching/General/Base hospital

Medical certificates from medical officers or institutions other than those listed will NOT BE ACCEPTED.

- c. A medical certificate is not valid unless it has been submitted within ONE WEEK following the completion of leave.
  - d. Medical certificates should be submitted to the Senior Assistant/Assistant Registrar of the faculty.
5. Students are expected at all times to dress neatly. They should behave well within and outside the university. Talking in loud tones within the university premises, hospital and other training centres should always be avoided. Smoking and consuming alcohol are prohibited within the university premises, hospitals or other training centres and the student hostels. Students should not enter any of the institutions/premises mentioned above following consumption of alcohol.
  6. No student(s) or student body shall collect monies or goods for any purpose without written permission from the Dean and the Vice Chancellor. Accounts of all such monies collected should be submitted to the Dean within two weeks.
  7. Batches of students or student bodies who plan to go on trips must obtain permission to do so from the Deputy Senior Student Counsellor and Dean.
  8. Students or student bodies who intend to hold meetings or socials in the faculty premises should obtain permission from the Deputy Senior Student Counsellor and the Dean. If

students plan to do such activities outside the faculty premises as the students of the University of Ruhuna, they should seek permission from the Dean.

9. Students will not be permitted to use mobile phones or other electronic communication devices during academic work.

## ANNEXURE 3

### Prohibition of Ragging and other forms of Violence in Educational Institutions

AN ACT TO ELIMINATE RAGGING AND OTHER FORMS OF VIOLENCE, AND CRUEL, INHUMAN AND DEGRADING TREATMENT, FROM EDUCATIONAL INSTITUTIONS

BE it enacted by the Parliament of the Democratic, Socialist Republic of Sri Lanka as follows :” [29<sup>th</sup> April, 1998 ]

1. This Act may be cited as the Prohibition of Ragging and Other Forms of Violence in Educational Institutions Act, No. 20 of 1998.

#### Ragging

2. (1) Any person who commits, or participates in; ragging, within or outside an educational institution, shall be guilty of an offence under this Act and shall on conviction after summary trial before a Magistrate be liable, to rigorous imprisonment for a term not exceeding two years and may also be ordered to pay compensation of an amount determined by court, to the person in respect of whom the offence was committed for the injuries caused to such person.  
(2) A person who, whilst committing ragging causes sexual harassment or grievous hurt to any student or a member of the staff, of an educational institution shall be guilty of an offence under this Act and shall on conviction after summary trial before a Magistrate be liable to imprisonment for a term not exceeding ten years and may - also be ordered to pay compensation of an amount determined by court, to the person in respect of whom the offence was committed for the injuries caused to such person.

#### Criminal intimidation

3. Any person who, within or outside an educational institution, threatens, verbally or in writing, to cause injury to the person, reputation or property of any student or a member of the staff, of an educational institution (in this section referred to as “the victim”) or to the person, reputation or property of some other person in whom the victim is interested, with the intention of causing fear in the victim or of compelling the victim to do any act which the victim is not legally required to do, or to omit to do any act which the victim is entitled to do, shall be guilty of an offence under this Act and shall on conviction after summary trial before a Magistrate be liable to rigorous imprisonment for a term not exceeding five years.

#### Hostage taking

4. Any person who does any act by which the personal liberty and the freedom of movement of any student or a member of the staff of an educational institution or other person within such educational institution or any premises under the management and control of such educational institution, is restrained without lawful justification and for the purpose of forcing such student, member of the staff or person to take a particular course of action, shall be guilty of an offence under this Act and shall on conviction after summary trial before a Magistrate, be liable to rigorous imprisonment for a term not exceeding seven years.

#### Wrongful restraint

5. Any person who unlawfully obstructs any student or a member of the staff of an educational institution, in such a manner as to prevent such student or member of the staff from proceeding in any direction in which such student or member of the staff, has a right to proceed, shall be guilty of an offence under this Act and shall on conviction after summary trial before a Magistrate be liable to rigorous imprisonment for a term not exceeding seven years.

#### Unlawful confinement

6. Any person who unlawfully restrains any student or a member of the staff of an educational institution in such a manner as to prevent such student or member of the staff from proceeding beyond certain circumscribing limits, shall be guilty of an offence under this Act and shall on conviction after summary trial before a Magistrate be liable to imprisonment for a term not exceeding seven years.

#### Forcible occupation and damage to property of an educational institution

7. (1) Any person who, without lawful excuse, occupies, by force, any premises of, or under the management or control of, an educational institution shall be guilty of an offence under this Act, and shall on conviction after summary trial before a Magistrate be liable to imprisonment for a term not exceeding ten years or to a fine not exceeding ten thousand rupees or to both such imprisonment and fine.  
(2) Any person who causes mischief in respect of any property of, or under the management or control of, an educational institution shall be guilty of an offence under this Act and shall on conviction after summary trial before a Magistrate be liable to imprisonment for a term not exceeding twenty years and a fine of five thousand rupees or three times the amount of the loss or damage caused to such property, whichever amount is higher.

#### Orders of expulsion or dismissal

8. Where a person is convicted of an offence under this Act, the court may, having regard to the gravity of the offence"
  - (a) in any case where the person convicted is a student of an educational institution, order that such person be expelled from such institution ;
  - (b) (b) in any case where the person convicted is a member of the staff of an educational institution, order that such person be dismissed from such educational institution.

#### Bail

9. (1) A person suspected or accused of committing an offence under subsection (2) of section 2 or section 4 of this Act shall not be released on bail except by the judge of a High Court established by Article 154P of the Constitution. In exercising his discretion to grant bail such Judge shall have regard to the provisions of section 14 of the Bail Act, No. 30 of 1997.  
(2) Where a person is convicted of an offence under subsection (2) of section 2 or section 4 of this Act, and an appeal is preferred against such conviction, the Court convicting such person may, taking into consideration the gravity of the offence and the antecedents of the person convicted, either release or refuse to release, such person on bail.

Certain Provisions of the Code of Criminal Procedure Act not to apply to persons convicted or found guilty of an offence under this Act

10. Notwithstanding anything in the Code of Criminal Procedure Act, No. 15 of 1979"

- (a) the provisions of section 303 of that Act shall not apply in the case of any person who is convicted,
- (b) the provisions of section 306 of that Act shall not apply in the case of any person who pleads or is found guilty, by or before any court of any offence under subsection (2) of section 2 or section 4 of this Act.

Offences under this Act deemed to be cognizable offences

11. All offences under this Act shall be deemed to be cognizable Offences for the purposes of the application of the provisions of the Code of Criminal Procedure Act, No. 15 of 1979, notwithstanding anything contained in the First Schedule to that Act.

Certificate

12. Where in any prosecution for an offence under this Act, a question arises whether any person is a student or a member of the staff of an educational institution or whether any premises or property is the property of, or is under the management and control of, an educational institution a certificate purporting to be under the hand of the head or other officer of such educational institution to the effect that the person named therein is a student or a member of the staff of such educational institution, or that the premises or property specified therein is the property of, or is under the management and control of, such educational institution, shall be admissible in evidence without proof of signature and shall be prima facie evidence of the facts stated therein.

Admissibility of statement in evidence

13.

(1) If in the course, of a trial for an offence under this Act, any witness shall on any material point contradict either expressly or by necessary implication a statement previously given by him in the course of any investigation into such offence, it shall be lawful for the Magistrate if, after due inquiry into the circumstances in which the statement was made, he considers it safe and just "

(a) to act upon the statement given by the witness in the course of the investigation, if such statement is corroborated in material particulars by evidence from an independent source; and

(b) to have such witness at the conclusion of such trial, tried before such court upon a charge for intentionally giving false evidence in a stage of a judicial proceeding,

(2) At any trial under paragraph (b) of subsection (1) it shall be sufficient to prove that the accused made the contradictory statements alleged in the charge and it shall not be necessary to prove which of such statements is false.

Provisions of this Act to be in addition to and not in derogation of the provisions of the 14. Penal Code & c

14. The provisions of this Act shall be in addition to and not in derogation of, the provisions of the Penal Code, the Convention Against Torture and Other Cruel,

Inhuman or Degrading Treatment or Punishment Act, No. 22 of 1994 or any other law.

Priority for trials and appeals under this Act

15. Every Court shall give priority to the trial of any person charged with any offence under this Act and to the bearing of any appeal from the conviction of any person for appeals under any such offence and any sentence imposed on such conviction.

Sinhala text to Prevail in case of inconsistency

“criminal force”, “fear”, “force”, “grievous hurt”, “hurt” and “mischief shall have the respective meanings assigned to them in the Penal Code;

“educational institution” means –

- (a) a Higher Educational Institution;
- (b) any other Institution recognized under Chapter IV of the Universities Act, No. 16 of 1978;
- (c) the Buddhist and Pali University established by the Buddhist and Pali University of Sri Lanka Act, No. 74 of 1981;
- (d) the Buddha Sravaka Bhikku University, established by the Buddha Sravaka Bhikku University Act, No. 26 of 1996;
- (e) any Institute registered under section 14 of the Tertiary and Vocational Education Act, No. 20 of 1990;
- (f) any Advanced Technical Institute established under the Sri Lanka Institute- of Technical Education Act, No. 29 of 1995;
- (g) a Pirivena registered under the Pirivena Education Act, No. 64 of 1979 and receiving grants from State funds and includes a Pirivena Training Institute established under that Act;
- (h) the Sri Lanka Law College;
- (i) the National Institute of Education established; by the National Institute of Education Act, No.
- (j) a College of Education established by the: Colleges of Education Act, No. 30 of 1986, or a Training College;
- (k) a Government school or an assisted school or an unaided school, within the meaning of the Education Ordinance (Chapter 185);

and includes any other institution established for the purpose of providing education, instruction or training;

“head of an educational institution” means the Vice- Cancellor, Mahopadyaya, Director, President, Principal or any other person howsoever designated charged with the administration and management of the affairs of such educational institution;

“Higher Educational institution” has the meaning assigned to it in the Universities Act, No. 16 of 1978;

“ragging” means any act which causes or is likely to cause physical or psychological injury or mental pain or : fear to a student or a member of the staff of an educational institution;

“student” means a student of an educational institution;

“sexual harassment” means the use of criminal force, words or actions to cause sexual annoyance or harassment to a student or a member of the staff, of an educational institution

## **ANNEXURE 4**

### **Examination Rules, Offences and Punishments**

**These examination rules, offences and punishments are extracted from the “Manual of procedures for conduct of examinations” of University of Ruhuna; Chapter 8 and 9**

#### ***Examination Rules***

##### **8.1. Attendance**

Candidates shall be in attendance outside the examination hall at least 15 minutes before the commencement of examination, but shall not enter the hall until they are requested to do so by the Supervisor.

Presence of candidates

##### **8.2. Seating**

On admission to the hall a candidate shall occupy the seat allotted to him and shall not change it except on the specific instructions of the Supervisor.

##### **8.3 Admission to Hall**

8.3.1 No candidate shall be admitted to the examination hall for whatever reason after the expiry of half-an-hour from the commencement of the examination.

8.3.2 No candidate shall be allowed to leave the hall until an hour has lapsed from the commencement of the examination or during the last 15 minutes of the paper.

##### **8.4 Identity verification**

8.4.1 Candidate shall have his student ID Card/ Record Book and the admission card with him on every occasion he presents himself for an examination.

8.4.2 His candidature is liable to be cancelled if he does not produce the student ID Card/ Record Book. If he fails to bring the student ID Card/ Record Book on any occasion, he shall, sign a declaration in respect of the paper for which he had not produced the student ID Card/ Record Book in the form Ex 26, and produce the student ID Card/ Record Book on the next occasion when he appears for the examination. If it is the last paper or the only paper he is sitting, he shall produce the student ID Card/ Record Book to the Registrar within one working day.

8.4.3 If a candidate loses his student ID Card/ Record Book in the course of the Examination, he shall obtain a duplicate Record Book /Identity Card from the Registrar in order to take part in the rest of the examination.



#### 8.5 Documents etc. which Candidates should not Bring

8.5.1 No candidate shall have in his possession, (e.g. in his clothes, on the admission card, Time Tables, Record Book or any other object he is permitted to bring into the examination hall), any Materials not allowed notes, signs and formula or any other unauthorized material. Books, notes, parcels, handbags, mobile phones etc. which a candidate has brought with him should be kept at a place indicated by the Supervisor/Invigilator.

#### 8.6 Declaration of Articles in Possession

A candidate may be required by the Supervisor to declare any item in his possession or person.

#### 8.7 Copying

8.7.1 No candidate shall copy or attempt to copy from any book, paper, notes, mobile phone, electronic devices, similar material or from the scripts of another candidate. Candidate shall neither help another candidate nor obtain help from another candidate or any other person.

8.7.2 Candidate neither shall conduct himself so negligently that an opportunity is given to other candidates to read anything written by him nor to watch any practical examination conducted by him.

8.7.3 Candidate neither shall use any other unfair means nor seek/ obtain / render improper assistance at the Examination.

#### 8.8 Cheating

No candidate shall submit a practical or field book, dissertation, project study or answer scripts which have been done entirely or partly by anyone other than the candidate himself.

#### 8.9 Articles Candidate may Bring

Candidates shall bring their own pens, ink, mathematical instruments, erasers, pencils, or any other equipment or stationery which the candidates have been instructed to bring.

#### 8.10 Use of Examination Stationary

8.10.1 Examination stationery (i.e. writing paper, graph paper, drawing paper, ledger paper, precis paper etc.) will be supplied whenever necessary. No sheet, paper or answer book supplied to a candidate may be torn, crumpled, folded or otherwise mutilated.

8.10.2 No papers other than those supplied to him by the Supervisor or Invigilator shall be used by candidates. All materials supplied whether used or unused, shall be left on the desk and not removed from the examination hall.

#### 8.11 Index Number

8.11.1 Every candidate shall enter his Index Number on the answer book and on every continuation paper. He shall also enter all necessary particulars as indicated in the cover of the answer book. A candidate who inserts on his script an Index Number other than his own is liable to be considered as having attempted to cheat.

8.11.2 A script that bears no Index Number or an Index Number which cannot be identified or verified, is liable to be rejected. No candidate shall write his name or any other identifying marks on the answer scripts.

#### 8.12 Rough Work to be Cancelled

8.12.1 All calculations and rough work shall be done only on papers supplied for the examination, and shall be cancelled and attached to the answer script.

8.12.2 Such work should not be done on admission cards, time-tables, question papers, Record Book or on any other paper. Any candidate who disregards these instructions will be considered as having written notes or outline of answer with the intention of copying.

#### 8.13 Unwanted Parts of Answers to Crossed Out

Any answer or part of an answer which is not to be considered for the purpose of assessment shall be neatly crossed off. If the same question has been attempted in more than one place the answer or answers that are not to be counted shall be neatly crossed off.

Unwanted parts of answers

#### 8.14 Under Supervisor's Authority

Candidates are under the authority of the Supervisor and shall assist him by carrying out his instructions and those of his Invigilators, during the examination and immediately before and after it.

#### 8.15 Conduct

Every candidate shall conduct himself in the examination hall and its precincts so as not to cause disturbance or inconvenience to the Supervisor or his staff or to other candidates. In entering and leaving the hall, he shall conduct himself as quietly as possible. A candidate is liable to be excluded from the examination hall for disorderly conduct.

#### 8.16 Stopping Work

Candidates shall stop work promptly when ordered by the Supervisor/Invigilator to do so.

#### 8.17 Maintenance of Silence

8.17.1 Absolute silence shall be maintained in the examination hall and its precincts. A candidate is not permitted for any reason whatsoever to communicate or have any dealings with any person other than the Supervisor or Invigilator.

8.17.2 In case of urgent necessity, the candidate may communicate with the Supervisor or Invigilator. The attention of the Supervisor or Invigilator shall be drawn by raising hand from where he is seated.

#### 8.18 Leaving the Hall

During the course of answering a paper no candidate shall be permitted to leave the examination hall temporally. In case of emergency, permission will be granted but the candidate will be under surveillance of the Supervisor or Invigilator.

#### 8.19 Impersonation

No person shall impersonate a candidate whether in the examination hall or before or after the Examination, nor shall any candidate allow himself to be impersonated by another person.

#### 8.20 Dishonesty

Serious notice will be taken of any dishonest assistance given to a candidate, by any person.

#### 8.22 Cancellation or Postponement

If circumstances arise which in the opinion of the Supervisor in consultation of the Controller Chief, render the cancellation or postponement of the examination necessary, he shall stop the Examination, collect the scripts already written and then report the matter in writing to the Dean of the Faculty.

#### 8.23 Making of Statements

The Supervisor/Invigilator is empowered to require any candidate to make a statement in writing on any matter which may have arisen during the course of the examination and such statement shall be signed by the candidate. No candidate shall refuse to make such a statement or sign it.

#### 8.24 Whom to Contact in Examination Matters

No candidate shall contact any person other than the Dean, Head of the Department or the Registrar, regarding any matter concerning the examination.

#### 8.25 Handing Over of Answer Scripts

Candidates shall hand over the answer scripts personally to the Supervisor or Invigilator or remain in the seat until it is collected. On no account shall a candidate handover his answer scripts to the hall attendant, or another candidate.

#### 8.26 Absence from Examination

When a candidate is unable to present himself for any part/section of an Examination, he shall notify or make arrangements to notify this fact to the Registrar immediately. This should be followed up by a letter with supporting documents sent by registered post, within one week of the incident. Candidates those who did not attend the examination for medical reason shall submit the medical certificates following the instructions by using Ex 27.

#### 8.27 Eligibility to Continue to Sit

No student shall sit for an Examination, if he has exhausted the number of attempts that he is allowed to sit that particular Examination, unless he has been granted special permission to do so by the Senate.

### ***Examination Offences and Punishments***

9.1.1. A candidate who violates any of the requirements or conditions stipulated in Examination Rules shall be considered as having committed an examination offence. Examination offence Examination offences are classified as follows:  
Classification of offences

- (a) Possession of unauthorized documents or removal of examination stationery
- (b) Possession of telecommunication or transmitting devices
- (c) Plagiarism from internet or any other sources

- (d) Disorderly conduct
- (e) Copying (even detected while marking the answer scripts)
- (f) Obtaining or attempting to obtain improper assistance or cheating or attempting to cheat
- (g) Impersonation
- (h) Aiding and abetting the commission of any of these offences
- (i) Violation of any of the requirements or conditions stipulated from 8.6 -8.10.

- 9.1.2 There shall be an Examination Disciplinary Committee appointed by the Senate to investigate into and make recommendations (including punishments) regarding examination offences referred to it. The recommendations of the Examination Disciplinary Committee shall be submitted to the Senate for the final decision.
- 9.1.3 In all cases of commission of examination offences detected (even detected while marking the answer scripts), the Supervisor/Examiner shall take action as outlined below and forward his report to the Registrar for further action.
- 9.1.4 The Registrar shall place all reports of examination offences submitted by the Supervisors, through Dean, for the consideration of the Vice-Chancellor who shall decide whether they shall be referred to the Examination Disciplinary Committee for further action.
- 9.1.5 Any examiner, Head of Department, Dean of Faculty or any other official of the University who detects an examination offence, shall report the matter in writing to the Registrar, who shall submit the same to the Vice-Chancellor for necessary action.
- 9.1.6 A candidate who is found guilty of an examination offence is liable to one or more of the following punishments.
- (a) Removal of his/her name from the pass list
  - (b) Cancellation of his/her candidature from whole or part of the examination,
  - (c) Suspension from University examinations indefinitely or for a period as the Senate may decides
  - (d) Ban participation in the Convocation
  - (e) Suspension from the University indefinitely or for a period as the Senate may decide.
- 9.1.7 Any candidate found aiding and abetting the commission of any examination offence shall be liable to the same punishment as that applicable to the offence.
- 9.1.8 Any appeal against the decision of the Senate shall be made to the Council within one month of the receipt of the notification





Faculty of Allied Health Sciences  
University of Ruhuna