

### **Student Hand Book**

&

**Lecture Modules** 

## DIPLOMA IN PHARMACEUTICAL SCIENCES

(PHARMACIST'S COURSE - EXTERNAL)

**FOR** 

"SRI LANKA MEDICAL COUNCIL REGISTRATION"



INSTITUTE OF MEDICINE AND HEALTH SCIENCES (IMHS) SRI LANKA



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# IMHS PHARMACIST COURSE Date

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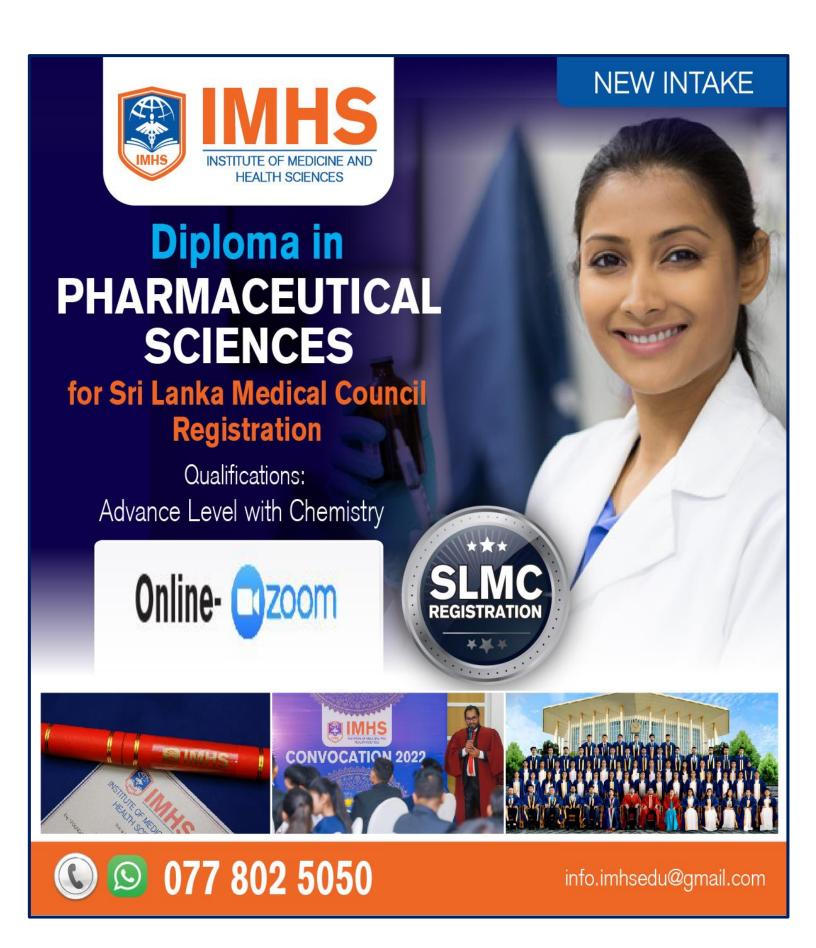
INSTITUTE OF MEDICINE AND HEALTH SCIENCES

Volume

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077 802 5050



Module	Topic							
Anaton	ny, Physiology, Pathology, Pharmacology							
Module 01	CELL BIOLOGY & HUMAN STRUCTURE							
	ROUTES OF ADMINISTRATION							
	INTRODUCTION TO PHARMACOLOGY							
	METHODOLOGY OF CLINICAL TRIALS							
	PHARMACOKINETICS AND PHARMACODYNAMICS							
	BRITISH NATIONAL FORMULARY							
	PHARMACOPOEIA							
Module 02	ANATOMY AND PHYSIOLOGY OF HUMAN							
	GASTROINTESTINAL TRACT							
	PATHOLOGY OF HUMAN GASTROINTESTINAL TRACT							
	MEDICATIONS USED IN PEPTIC ULCER							
	LAXATIVE MEDICATIONS FOR CONSTIPATION							
	MEDICATIONS USED FOR DIARRHEA							
INI	REHYDRATION THERAPY & ORS							
IIN	MEDICATIONS USED FOR VOMITING AND MOTION SICKNESS							
Module 03	ANATOMY AND PHYSIOLOGY OF HUMAN RESPIRATORY							
Widule 03	SYSTEM							
	PATHOLOGY OF HUMAN RESPIRATORY SYSTEM							
	MEDICATIONS USED FOR ASTHMA AND COPD							
	MEDICATIONS USED FOR ALLERGIC DISORDERS							

Module 04	ANATOMY AND PHYSIOLOGY OF CARDIOVASCULAR SYSTEM								
	PATHOLOGY OF CARDIOVASCULAR SYSTEM  HYPERTENSION  ANGIOTENSIN CONVERTING ENZYME INHIBITORS (ACEIs)								
	ANGIOTENSIN II RECEPTOR BLOCKERS								
	CALCIUM CHANNEL BLOCKERS								
	ADRENERGIC RECEPTOR BLOCKERS								
	MEDICATIONS USED FOR ANGINA								
	MEDICATIONS USED FOR CARDIAC-ARRHYTHMIAS								
Module 05	MEDICATIONS USED FOR CARDIAC FAILURE								
	HEMOSTASIS AND THROMBOSIS								
	ANTICOAGULANT MEDICATIONS								
	ANTIPLATELET MEDICATIONS								
II.	FIBRINILYTICS AND ANTIFIBRINOLYTICS								
	LIPIDS, LIPOPROTEINS & HYPERLIPIDAEMIA								
	MEDICATIONS USED FOR HYPERLIPIDAEMIA								
Module 06	ANATOMY AND PHYSIOLOGY OF HUMAN URINARY SYSTEM								
	DIURETICS MEDICATIONS								

Module 07	ANATOMY AND PHYSIOLOGY OF HUMAN ENDOCRINE SYSTEM									
	PATHOLOGY OF HUMAN ENDOCRINE SYSTEM									
	THYROID GLAND AND RELATED MEDICATIONS  PANCREAS AND DIABETES MELLITUS									
	INSULIN USED FOR DM									
	HYPOGLYCEMIC MEDICATIONS FOR DM									
	ADRENAL GLAND AND CORTICOSTEROIDS									
Module 08	ANATOMY AND PHYSIOLOGY OF HUMAN REPROCTIVE SYSTEM									
	HORMONES RELATED TO HUMAN REPRODUCTIVE SYSTEM									
	MEDICATIONS USED FOR HUMAN REPRODUCTIVE SYSTEM									
	CONTRACEPTION AND CONTRACEPTIVES									
Module 09	BONES METABOLIOSM & RELATED HORMONES									
	MEDICATIONS FOR METABOLIC BONE DESORDERS									
TN	INFLAMMATION AND ANTI-INFLAMMATORY DISORDERS									
	NON-STEROIDAL ANTI-INFLAMMATORY DRUGS (NSAIDs)									
	MEDICATIONS FOR RHEUMATOID ARTHRITIS									
	MEDICATIONS FOR GOUT ARTHRITIS									
	ANESTHETIC MEDICATIONS									
	PAIN AND ANALGESICS									

Module 10	INFECTIONS & ANTI-INFECTIVE MEDICATIONS										
	PENICILLIN ANTIBIOTICS										
	CEPHALOSPORIN ANTIBIOTICS										
	PROTEIN SYNTHESIS INHIBITORS ANTIBIOTICS										
	NUCLEIC ACIDS SYNTHESIS INHIBITORS ANTIBIOTICS										
	MEDICATIONS FOR VIRAL INFECTIONS										
	MEDICATIONS FOR FUNGAL INFECTIONS										
	MEDICATIONS FOR PROTOZOAN DISEASES + MALARIA										
	MEDICATION FOR HELMINTHIC INFECTIONS										
	MEDICATION FOR TUBERCULOSIS (TB)										
	MEDICATIONS FOR LEPROSY										
Module 11	ANATOMY AND PHYSIOLOGY OF HUMAN NERVOUS SYSTEM										
	DRUGS ACTING ON AUTONOMIC NERVOUS SYSTEM										
	CENTRAL NERVOUS SYSTEM										
	- MEDICATIONS USED FOR SCHIZOPHRENIA										
	CENTRAL NERVOUS SYSTEM										
	- MEDICATIONS USED FOR MANIA										
	CENTRAL NERVOUS SYSTEM										
	- MEDICATIONS USED FOR DEPRESSIO										
	CENTRAL NERVOUS SYSTEM										
	- MEDICATIONS USED FOR BIPOLAR DISORDERS										
	CENTRAL NERVOUS SYSTEM										
	- MEDICATIONS USED FOR ANXIETY										

	CENTRAL NERVOUS SYSTEM									
	- MEDICATIONS USED FOR INSOMNIA									
	CENTRAL NERVOUS SYSTEM									
	- MEDICATIONS USED FOR DEMENTIA									
	CENTRAL NERVOUS SYSTEM - MEDICATIONS USED FOR PARKINSONISM									
	CENTRAL NERVOUS SYSTEM									
	- MEDICATIONS USED FOR EPILEPSY									
Module 12	VITAMIN & ESSENTIAL MINERALS									
	DOICONG & ANTEDOTE MEDICATIONS									
	POISONS & ANTIDOTE MEDICATIONS									
	MEDICATIONS FOR CANCER / CYTOTOXIC MEDICINES									
	WIEDICATIONS FOR CANCER/CITOTOXIC WIEDICINES									
	IMMUNIZATION AND NATIONAL IMMUNIZATION PROGRAM									
	CKD & DIALYSIS									
	NATURAL PRODUCTS USED IN PHARMACEUTICAL									
	INDUSTRY									
Fore	ensic Pharmacy - Pharmacy Law & Ethics									
Module 13	FORENSIC PHARMACY INTRODUCTION									
	LIENTTH SCIENCES									
	MEDICAL ORDINANCE									
	NATIONAL MEDICINES AND REGULATORY AUTHORITY ACT									
	AND REGULATION (NMRA ACT & REGULATION)									
	POISONS, OPIUM AND DANGEROUS DRUGS ORDINANCE (PODDO)									

Pharmaceutics Related								
Module 14	INTRODUCTION TO PHARMACEUTICS							
	PRESCRIPTIONS RELATED							
	SPECIAL DRUG DELIVERY SYSTEMS							
	SURGICAL AND MEDICAL DEVICES							
	ANTISEPTICS AND DISINFECTANTS							
Module 15	INTRODCUTION OF PHARMACEUTICAL DOSAGE FORMS							
	INTRODUCTION OF SOLID DOSAGE FORMS							
	POWDER DOSAGE FORMS							
	TABLETS - TABLET MANUFACTURING - TABLET TESTING/QC							
	CAPSULES - HARD GELATIN CAPSULES - SOFT CAPSULES - CAPSULE TESTIN/QC							
	SOPPOSITORIES & PESSARIES							
Module 16	INTRODUCTION OF LIQUID DOSAGE FORMS  PHARMACEUTICAL SOLUTIONS							
	PHARMACEUTICAL SUSPENSIONS							
	PHARMACEUTICAL EMULSIONS							
	SEMI-SOLID DOSAGE FORMS							
	GAS DOSAGE FORMS							

Module 17	PHARMACEUTICAL PACKAGING								
	STERILIZATION OF PHARMACEUTICALS & STERILE PHARMACEUTICAL PRODUCTS								
	PHARMACEUTICALS DEGRADATIONS & STABILITY OF PHARMACEUTICALS								
Module 18	INTRODUCTION OF UNIT OPERATIONS TO PHARMACEUTICAL INDUSTRY								
	PARTICLE SIZE REDUCTION								
	MIXING								
	DRYING								
	FREEZE DRYING								
	FILTRATION								
	CENTRIFUGATION								
	EVAPORATION								
	DISTILLATION								
	EXTRACTION								
Module 19	GOOD MANUFACTURING PRACTICES								
	GOOD PHARMACY PRACTICES								
	PHARMACEUTICAL CALCULATIONS								

#### **Faculty Members of the IMHS**

#### Dr. Isuru Wijesinghe (PhD) – "Lead Educator for this Course"

- Senior Lecturer / Director IMHS
- PHD (USA) Healthcare & Pharmaceutical Sciences
- MSc (USA) Pharmaceutical Sciences
- BPharm Special (SL)
- Registered in Sri Lanka Medical Council
- LLB (Reading) (SL)
- 15 Years experiences in the field



#### Mrs. MGEJ Dharmasiri

- Senior Lecturer / Director IMHS
- BPharm (Reading) (SL)
- Diploma in Pharmacy (Proficiency) (SL)
- Registered in Sri Lanka Medical Council
- Chief Pharmacist (Government)
- 14 Years experiences in the field



#### Dr. Niranga Meegaskada (MBBS)

- Senior Lecturer IMHS
- MBBS (SL)
- Senior Medical Officer (Government)
- Obstetrics and Gynecology
- 14 Years experiences in the field



#### Dr. P. Rasika Sanjeewa Pathirana (PhD)

- Senior Lecturer IMHS
- PHD (SL) in Plant Molecular genetics
- MSc (SL) in Biotechnology
- Msater of Arts
- B.Sc Molecular Biology & Biochemistry
- Diploma in Pharmaceutical Management & Practice
- Registered Sri Lanka Medical Council
- 15 Years experiences in the field



#### Mr. V Hari Harshan

- Senior Lecturer IMHS
- MPharm (India)
- BPharm Special (India)
- Registered in Sri Lanka Medical Council
- Head of Formulation Development (SL)
- 10 Years experiences in the field



#### Ms. GWT Madhumali

- Senior Lecturer IMHS
- BSc Nursing (Special) SL
- Registered Nurse (Nursing Council, SL)
- Nursing officer (Government)
- 10 Years experiences in the field





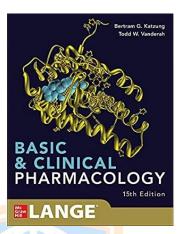
#### **Assignments for Each Module**

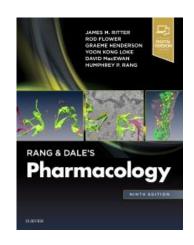
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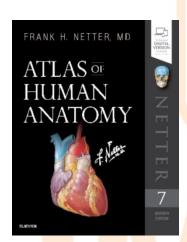
#### **RECOMMENDED BOOKS**

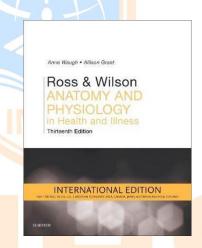
- 1. BRITISH NATIONAL FORMULARY
- 2. BASIC & CLINICAL PHARMACOLOGY BY BERTRAM KATZUNG
- 3. RANG & DALE'S PHARMACOLOGY
- 4. LIPPINCOTT ILLUSTRATED REVIEWS: PHARMACOLOGY (LIPPINCOTT ILLUSTRATED REVIEWS SERIES)
- 5. GOODMAN AND GILMAN MANUAL OF PHARMACOLOGY AND THERAPEUTICS (GOODMAN AND GILMAN'S MANUAL OF PHARMACOLOGY AND THERAPEUTICS)
- 6. ATLAS OF HUMAN ANATOMY, PROFESSIONAL EDITION
- 7. ROSS & WILSON ANATOMY AND PHYSIOLOGY IN HEALTH AND ILLNESS
- 8. GRAY'S ANATOMY FOR STUDENTS
- 9. AULTON'S PHARMACEUTICS
- 10. RAMINGTON ESSENTIALS OF PHARMACEUTICS
- 11.PHARMACEUTICAL MICROBIOLOGY, ESSENTIALS FOR QUALITY ASSURANCE AND QUALITY CONTROL
- 12.WHO GUIDELINES ON GMP
- 13.MHRA GUIDELINES ON GMP

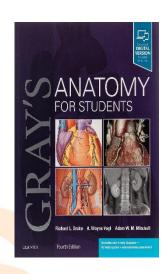


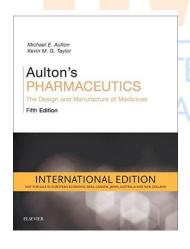


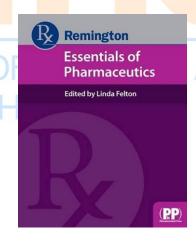


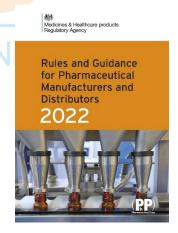










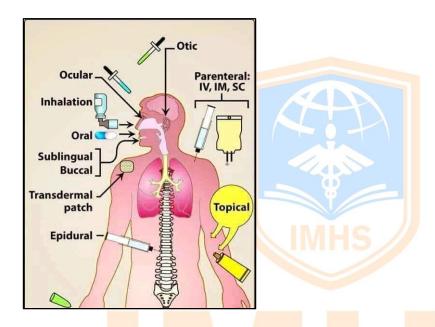


#### **Payment Details**

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#### **Routes of Administration**

Routes of administration are methods for delivering drugs or substances into the body, varying from swallowing pills (oral) to injecting into the bloodstream (intravenous).



#### Pharmaceutical Dosage Forms

Pharmaceutical dosage forms are the different physical forms in which medications are available, like tablets, capsules, or syrups, tailored for effective administration and patient convenience.



#### **Pharmaceutical Ingredients**

Pharmaceutical ingredients are the essential components that make up medications, including the active compounds responsible for their therapeutic effects, as well as any inactive materials used for formulation.



#### Drug Development & Drug Product Lifecycle

Drug development is the process of discovering and creating new medications, while the drug product lifecycle encompasses a drug's entire journey from development to approval, manufacturing, and market availability.



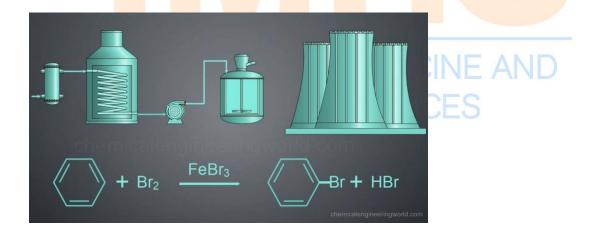
#### **Physical Pharmacy**

Physical pharmacy focuses on the physical and chemical properties of drugs and how they relate to pharmaceutical formulation and drug delivery.



#### **Introduction to Unit Operations**

Unit operations are core processes in chemical engineering that involve specific physical and chemical transformations, such as mixing, filtration, or distillation, used to convert raw materials into finished products.



#### **Pharmaceutical Analysis**

Pharmaceutical analysis is a critical branch of pharmaceutical science that involves the qualitative and quantitative assessment of drugs and pharmaceutical products to ensure their safety, efficacy, and quality.



#### **Solid Dosage Forms**

Solid dosage forms are pharmaceutical preparations that come in solid form, such as tablets or capsules, and are designed for oral administration. They provide a convenient and precise way to deliver medications.



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#### **Liquid Dosage Forms**

Liquid dosage forms in the pharmaceutical industry are drug formulations that are in a liquid state, such as syrups, solutions, or suspensions. These forms are used when patients may have difficulty in swallowing solid forms.



#### Semi-Solid Dosage Forms

Semi-solid dosage forms are pharmaceutical preparations such as creams and ointments, used for topical application to the skin or mucous membranes for localized drug delivery or skin treatment.



#### **Sterile Products**

"Sterile products" refer to pharmaceutical preparations that are free from living microorganisms, making them suitable for injection, surgical procedures, or other applications where aseptic conditions are crucial to prevent infection.



#### **Special Dosage Forms**

Special dosage forms in the pharmaceutical industry are tailored formulations designed for specific patient needs or unique delivery requirements, often outside of traditional solid, liquid, or semi-solid forms.



#### **Packaging Material & Process**

Pharmaceutical packaging encompasses the materials and procedures used to securely and safely store and distribute medications, ensuring their quality and integrity.



#### NMRA Regulations for Manufacturing & GMP

NMRA (National Medicines Regulatory Authority) Regulations for Manufacturing and GMP (Good Manufacturing Practices) are essential quality standards in the Sri Lankan pharmaceutical industry. They ensure that pharmaceutical products are consistently produced and controlled to meet quality standards.



#### **Course Highlights**

- Highly Qualified Lecturers
- SLMC Registration
- 300+ Lecture hours
- 20+ Assignments
- Exams (Mid & Final)
- Evaluation report for every Student
- Distance Learning (ONLINE)
- Diploma Certificate with Transcript





#### **About IMHS**

IMHS (Institute of Medicine & Health Sciences) was established in 2019 with the aim of facilitating Professional Healthcare Education for the professionals involved in the healthcare sector, students pursuing their studies in Healthcare & Medicine and the members of the general public who wishes to acquire & enhance their knowledge on health education.

Since the inception, over 3000 students have successfully completed the courses offered by IMHS

IMHS currently offers the below Professional programs for SLMC Registered Apprentice Students.

- Diploma In Pharmaceutical Sciences (SLMC Registration)
- Foundation Course On Pharmaceutical
- Advanced Course In Pharmaceutical Manufacturing
- Advanced Course In Pharmaceutical Law & Regulation
- Advanced Course In Hospital & Community Pharmacy Practices
- Full Revision Course External Pharmacist Examination (SLMC Registration)
- Rapid Revision Course External Pharmacist Examination (SLMC Registration)
- OSPE & VIVA External Pharmacist Examination (SLMC Registration)
- English Course For Healthcare Professionals (Medical English Course)

In addition to the above, our management team is tirelessly working on introducing novel program areas (attached full programs below).

#### **IMHS Vision**

To be a globally renowned Healthcare Education Provider.

#### **IMHS Mission:**

To impart quality healthcare system and healthcare education and to undertake research and extension with emphasis on application and innovation that cater to the emerging societal needs through all-round development of students of all sections enabling them to be globally competitive and socially responsible citizens with intrinsic value s.



#### Chairman's / Managing Director's Message

The Pharmaceutical Industry has been evolving in Sri Lanka and around the world, over the years. Technological advancements, process re-engineering, knowledge sharing & up-skilling have resulted in elevating the overall standards of the industry and its stakeholders.

We established IMHS in 2019, in order to facilitate and share up-to-date knowledge on a number of subject areas within the Pharmaceutical industry. The learned, professional panel of lecturers work tirelessly in developing, further improving & delivering quality course content to students across the subject areas of drug action on diseases, medicine legislation, patient counseling and good pharmaceutical manufacturing practices, to name a few.

By completing our courses successfully, you will be empowered with knowledge and skills related to become a professional in the pharmaceutical industry; may it be in a hospital, a retail or wholesale pharmacy, or even in a pharmaceutical manufacturing facility. Our result-driven subject curriculum & teaching methods will equip you with the required skills and knowledge, for career progressions within and beyond the Pharmaceutical Science industries.

#### R.M Isuru Gayashan Wijesinghe

#### **Senior Lecturer**

PhD in Healthcare & Pharmaceutical Sciences, USA

M.Sc in Pharmaceutical Sciences, USA

BPharm (Special) Sri Lanka, LLB (Reading) SL



#### **Director's Message**

Our journey at IMHS started with the aim of developing a center of globally known excellence in Pharmaceutical education in Sri Lanka. Toward achieving this dream, we promote high-quality education and training in pharmaceutical science as well as entrepreneurship and innovation that cater to emerging societal needs.

As a Pharmacist with years of knowledge and experience in the industry, I believe proper knowledge of medicine with good ethics makes our community healthier which is very important for the growth of our country. So, we are committed to creating a learning, innovative, scientific, and carefully planned course curriculum for our students. This will help them gain knowledge of Pharmaceutical industry and relevant skills to claim their professional place in healthcare.

So, I invite you to join us to embark on a meaningful and rewarding career where you can play a part to safeguard health by making quality drugs and imparting knowledge on the safe use of medicines.

#### INSTITUTE OF MEDICINE AND

#### M.G.E.J Dharmasiri EALTH SCIENCES

#### **Senior Lecturer**

BPharm (Reading), Sri Lanka

Diploma in.Pharmacy, Sri Lanka

Chief Pharmacist - Government Hospital

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### IMHS SIGNED MOU WITH KIU

DATE: ON 5TH APRIL 2024 AT KIU











077 802 50 50 info.imhsedu@gmail.com



# IMHS SIGNED MOU WITH T L CARE CAMPUS PVT LTD

DATE: ON 19TH APRIL 2024





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## IMHS SIGNED MOU WITH SIPWAY CAMPUS PVT LTD

DATE: ON 19TH APRIL 2024











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#### **IMHS Academic Goals**

- 1. To offer a healthcare education pathway to healthcare professionals and the general public with the industrial and global requirements, and enhance the healthcare knowledge of the people.
- 2. To identify and introduce new education providing areas and incorporate curriculums and arrange relevant education high standard processes to the global.
- 3. To design and implement an educational system adhering to outcome-based international models
- 4. To introduce and implement innovation in the teaching and learning process to strengthen academic delivery



#### **IMHS Courses:**

- Medication Handling and Safety for Caregivers
- Foundation Course on Pharmaceutical Sciences
  - Certificate Course on Pharmacy Practice (Assistant Pharmacist Course)
  - Certificate Course on "Basics of Pharmaceutical Manufacturing"
  - Advanced Courses on Pharmaceutical Manufacturing
  - Advanced Courses on Pharmaceutical Law and Regulation
  - Advanced Courses on Community Pharmacy Practices
  - Diploma in Pharmaceutical Sciences
- Pharmacists' Course for Sri Lanka Medical Council (SLMC) registration
- Revision Courses External Pharmacist Examination (SLMC Registration)
- OSPE & VIVA External Pharmacist Examination (SLMC Registration)
- Higher Diploma in Pharmaceutical Sciences
- International Pharmacy Qualification Examinations (RPL)
- Pharmaceutical Marketing & Scientific Insights
- Professional Product training Courses for medical delegates & managers

- Skill Development for Pharmaceutical Industry Pharmaceutical Manufacturing (Production)
- Skill Development for Pharmaceutical Industry Research & Development
- Skill Development for Pharmaceutical Industry Quality Assurance
- Pharmaceutical Marketing Management, and Scientific Insights
- Professional Certificate in Product Knowledge for Medical Representatives & Managers
- Caregiver courses
- First aid courses
- Occupational Safety & Health Courses
- Physiotherapy courses
- Medical English Course For Healthcare Professionals
- Medical English Course For Medical Students (Beginer, Intermediate, Advanced)

English courses for Medical Students

• Wound care management courses

- Healthcare Education Courses for General Public
  - First Aid Fundamentals for Everyone
  - Living Well with Diabetes
  - Healthy Pregnancy and Lactation Essentials (Pregnancy and Location)
  - Living Well with High Blood Pressure & High Blood Cholesterol
  - Living Well with Pain and Arthritis
  - Living Well with Gastro-intestinal & Respiratory Disorders



#### **Educational Objectives of IMHS**

This program has been crafted with the following educational objectives:

#### 1. Knowledge Expansion:

 To broaden the understanding of healthcare professionals, colleagues, and the wider community regarding the intricacies of the pharmaceutical industry and the overall healthcare system.

#### 2. Professional Development:

• To cultivate a workforce that is both knowledgeable and competent, thereby enhancing the quality of personnel within the pharmaceutical sector and healthcare infrastructure.

#### 3. Educational Advancement:

• To establish a structured educational route that guides individuals through the complexities of the pharmaceutical landscape and healthcare services.

#### 4. Career Exploration:

• To spotlight the multitude of vocational opportunities available within the pharmaceutical field and healthcare system, thus informing and inspiring the public about potential career paths.

#### HEALTH SCIENCES

Each goal is aimed at not only enriching participants with knowledge but also at fostering a more efficient, informed, and prepared community of healthcare practitioners and industry professionals.

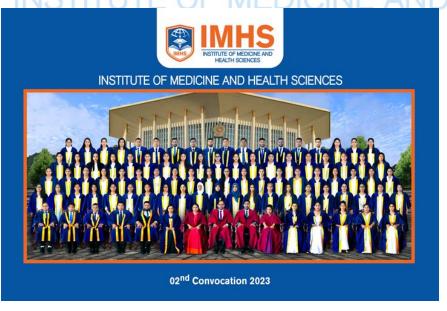
#### **IMHS CONVOCATION 2023**











#### **IMHS CONVOCATION 2022**













#### **IMHS GET-TOGETHER**



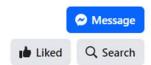
#### IMHS HELPING HANDS PROGRAM



## INSTITUTE OF MEDICINE AND HEALTH SCIENCES



Institute of Medicine and Health Sciences - IMHS







Visit Us:

info.imhsedu@gmail.com

CO

077 802 5050

Call Us:



### Pharmacist Course

Dr Isuru Wijesinghe

PhD (USA) /MSc (USA) /BPharm (SL) /LLB (Reading)(SL)

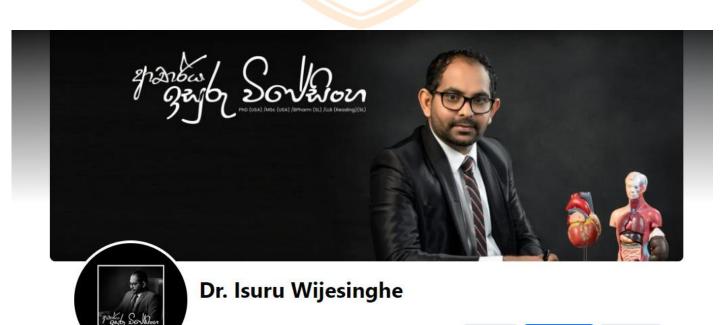
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HEALTH SCIENCES