

MARXIST – LENINIST PHILOSOPHY

- **Module Code:** LL001

- **Knowledge Classification:**

| | | | |
|---|-----------------------|--|--------------------------------|
| x | Foundation Knowledge | | Fundamental knowledge of Major |
| | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- **Number of Credits:** 3 Theory: 2 Assignment/ Discussion: 1

- **Level of student:** First year

Description: This module includes 3 chapters which are described as follows.

Chapter 1: Presents the most general features of philosophy, Marxist-Leninist philosophy and the role of Marxist-Leninist philosophy in social life.

Chapter 2: Presents the most basic contents of dialectical materialism: including issues of matter and consciousness; materialist dialectics; cognitive theory of dialectical materialism.

Chapter 3: Presents the basic contents of historical materialism: including the issue of the theory of socio-economic form; class and ethnicity; state and social revolution; social consciousness; philosophy of human.

Learning Objectives

| Objectives (1) | Description (2) |
|-------------------|---|
| CLO1 | Treatise on Philosophy and Marxist-Leninist Philosophy. |
| CLO2 | Fundamental issues of dialectical materialism. |
| CLO3 | Fundamental issues of historical materialism. |

POLITICAL ECONOMICS OF MARXISM AND LENINISM

- **Module Code: LL002**

- **Knowledge Classification:**

| | | |
|---|-----------------------|--------------------------------|
| x | Foundation Knowledge | Fundamental knowledge of Major |
| | Specialised knowledge | Others |
| | General Skills | Internship/Thesis |

- Number of Credits: 2 Theory: 2 Practice: 0

- **Level of student:** first year student.

Module Description

This course provides students with Marx's analysis of the capitalist mode of production and points out the limits of development of this mode of production. V.I. Lenin supplemented Marx's political economic theory in the new situation - the period of monopoly capitalism. Based on the basic content of Marxist-Leninist political economy, students learn about the general economic model of Vietnam during the transition period - Socialist-oriented market economy. Besides, this subject also provides students with the necessity of industrialization, modernization and international economic integration in the context of the 4th Industrial Revolution and strong globalisation.

Learning Objectives

| Objectives (1) | Objectives Description (2) |
|-------------------|--|
| CLO1 | Comprehend apparently the research purpose, research objects, research methods and functions of Marxist-Leninist political economy. |
| CLO2 | Comprehend apparently the basis of the capitalist production method, which is commodity production and the market |
| CLO3 | Demonstrate the ability to comprehend Marx's analysis and criticism of the capitalist mode of production including: (1) the production process of capital, (2) the circulation process of capital and (3) the entire process of production. The capitalist production process thereby points out the limits of the movement and development of this production method, thereby clearly understanding Vietnam's choice to develop along the socialist path. |

| Objectives (1) | Objectives Description (2) |
|---------------------------|---|
| CLO4 | Understand V.I. Lenin's analysis of capitalist production methods during the monopoly-dominated period |
| CLO5 | Comprehend apparently the socialist-oriented market economy model in Vietnam and the relationships of interests in the market economy. |
| CLO6 | Comprehend apparently why countries need to industrialize and integrate into the international economy. |
| CLO7 | Apply knowledge of Marxist-Leninist political economy to analyse and evaluate political and economic issues in Vietnam and the world, thereby developing an attitude to fight to protect Vietnam's path to socialism. |

HO CHI MINH'S IDEOLOGY

- **Module Code:** LL003

- **Knowledge Classification:**

| | | | |
|---|-----------------------|--|-----------------------------------|
| x | Foundation Knowledge | | Fundamental knowledge of Major |
| | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- Number of Credits: 2 Theory: 2 Practice: 0

- **Level of student:** First year student

Module Description

The subject matter pertains to the broad educational knowledge domain within the foundational block of political theory. It is designed to provide students with a comprehensive understanding of the following areas: The subjects, research methodologies, and significance of studying Ho Chi Minh's ideology; the foundation, evolution, and development of Ho Chi Minh's ideology; concepts of national independence and socialism; the role and structure of the Communist Party and State of Vietnam; the importance of national unity and international solidarity; and the influence of culture, ethics, and people.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|---------------------------|---|
| CLO1 | Learners perform the capability of comprehension of the foundation knowledge about concepts, objects, research methods and the meaning of studying Ho Chi Minh's ideology. |
| CLO2 | Learners perform the capability of comprehension of the foundation knowledge about the basis, process of formation and development of Ho Chi Minh's ideology |
| CLO3 | Learners perform the capability of comprehension of the foundation knowledge of Ho Chi Minh's ideology on national independence and socialism |
| CLO4 | Learners perform the capability of comprehension of the foundation knowledge of Ho Chi Minh's ideology on the Communist Party of Vietnam and the State of the people, by the people, for the people |

| Objectives (1) | Objective Description (2) |
|---------------------------|---|
| CLO5 | Learners perform the capability of comprehension of the foundation knowledge of Ho Chi Minh's ideology on great national unity and international solidarity |
| CLO6 | Learners perform the capability of comprehension of the foundation knowledge of Ho Chi Minh's thought on culture, ethics, and people |

HISTORY OF VIETNAMESE COMMUNIST PARTY

- Module Code: LL004

- Knowledge Classification:

| | | |
|---|-----------------------|-----------------------------------|
| x | Foundation Knowledge | Fundamental knowledge of Major |
| | Specialised knowledge | Others |
| | General Skills | Internship/ Thesis |

- Number of Credits: 2

Theory: 2

Practice: 0

- Level of student: First year student

Module Description:

The subject is a constituent of the Foundation knowledge segment within the foundational block of political theory.

This course equips students with the fundamental tenets of the revolutionary policy advocated by the Communist Party of Vietnam. It aims to instill confidence in students regarding the Party's leadership, aligning with the Party's objectives and ideals.

This module further enables students to apply specialised knowledge proactively and dynamically to address economic, political, cultural, and social issues in accordance with the guidelines, policies, and laws established by the Party and Government.

Learning Objectives

| Objectives (1) | Objectives Description (2) |
|-------------------|--|
| CLO1 | Students comprehend, employ, and analyse fundamental and systematic knowledge about the establishment of the Communist Party of Vietnam (1920-1930), the Party's leadership of the Vietnamese revolution during the period. fighting for political power (1930-1945), in two resistance wars against French colonialism and American imperialist invasion (1945-1975), in the cause of building and protecting the nation during the transition period to socialism, carrying out the reform and innovation process (1975 to present). |
| CLO2 | Students express the ability to apply scientific thinking methods in field of history, skills in selecting and generalising research materials, and studying subjects/ modules; analytical and evaluation skills and the ability to apply historical awareness to practical work. |
| CLO3 | Students apply Marxist scientific methodology to analyse, evaluate, fight against hostile perspective, and protect the Party's ideological foundation. |

SCIENTIFIC SOCIALISM

- **Module Code: LL005**

- **Knowledge Classification:**

| | | |
|---|-----------------------|-----------------------------------|
| x | Foundation Knowledge | Fundamental knowledge of Major |
| | Specialised knowledge | Others |
| | General Skills | Internship/ Thesis |

- Number of Credits: 2 Theory: 2 Practice: 0

- Level of student: First year student

Module Description

The module is an integral component of the fundamental knowledge section within the foundational block of political theory.

It is designed to furnish students with a foundational understanding of scientific socialism, encompassing its objects, research methodologies, and the significance of its study. The module delves into the historical mission of the working class, the concept of socialism and the transition period to socialism, socialist democracy and the socialist state, social-class structure and class alliances during the transition to socialism, and issues related to ethnicity, religion, and family during this transition.

The module matter is directly aligned to educating students about stance and ideology. It also provides students with a profound understanding of how to perceive socio-political issues. This comprehensive approach ensures that students are well-equipped to analyse and interpret various aspects of political theory.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|-------------------|--|
| CLO1 | Students have the performance of comprehension for the concept of socialism and the establishment, objects, methods and meaning of scientific socialism |
| CLO2 | Students understand and analyse the concept and content of the worldwide historical mission of the working class and the historical mission of the Vietnamese working class. |
| CLO3 | Students demonstrate the ability to understand, analyse and employ socialism and the transition period to socialism and the transition to socialism in Vietnam. |
| CLO4 | Students understand, analyse and apply issues of democracy, socialist state and issues of democracy and building a socialist state |

| Objectives (1) | Objective Description (2) |
|---------------------------|--|
| CLO5 | Students understand, analyse and apply the social - class structure and class and class alliances during the transition period to socialism and in Vietnam |
| CLO6 | Students understand, analyse, and apply ethnic and religious issues during the transition period to socialism and ethnic and religious relations in Vietnam. |
| CLO7 | Students understand, analyse, and apply family issues during the transition to socialism and family building in Vietnam. |

ENGLISH FOR MEDICINE 1

- **Module Code:** NN047

- **Module Classification:** Fundamental Knowledge

- **Credit:** 2 Theory: 1 Practice: 1

- **Level of student:** Second year student

Module Description

This module is a comprehensive course designed to equip students with the necessary English language skills for their medical studies and future careers. The course focuses on applying fundamental medical terminologies and concepts, comprehending and summarising medical literature and research papers, and enhancing communication skills for effective interaction with patients and their relatives. It also emphasises improving teamwork and collaboration skills in a multicultural environment and introduces the use of digital technology for online research, learning, and updating medical information.

Learning Objectives and Course Learning Outcomes

Learning objectives

By the end of this course, students will be able to understand and apply medical knowledge in English, communicate effectively with patients and colleagues, and utilise digital technology in their medical studies and practice. This course aligns with the Programme Learning Outcomes to ensure that students can apply their knowledge and skills in real-world medical contexts.

Table 1. Course Learning Outcomes

| Course Learning Outcomes (CLOs) |
|--|
| CLO1: Apply fundamental medical terminologies and concepts in English. |
| CLO2: Develop the ability to comprehend and summarise medical literature and research papers in English. |
| CLO3: Enhance communication skills to effectively interact with patients and their relatives in English. |
| CLO4: Improve teamwork and collaboration skills in a multicultural environment through group discussions and presentations in English. |
| CLO5: Utilise digital technology for online research, learning, and updating medical information in English. |

ENGLISH FOR MEDICINE 2

- **Module Code:** NN048

- **Module Classification:** Fundamental Knowledge

- **Credit:** 2 Theory: 1 Practice: 1

- **Level of student:** second year student

Module Description

This module is a comprehensive course designed to equip students with the necessary English language skills for their medical studies and future careers. The course focuses on applying fundamental medical terminologies and concepts, comprehending and summarising medical literature and research papers, and enhancing communication skills for effective interaction with patients and their relatives. It also emphasises improving teamwork and collaboration skills in a multicultural environment and introduces the use of digital technology for online research, learning, and updating medical information.

Learning Objectives and Course Learning Outcomes

Learning objectives

By the end of this course, students will be able to understand and apply medical knowledge in English, communicate effectively with patients and colleagues, and utilise digital technology in their medical studies and practice. This course aligns with the Programme Learning Outcomes to ensure that students can apply their knowledge and skills in real-world medical contexts.

Table 1. Course Learning Outcomes

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| CLO3: Enhance communication skills to effectively interact with patients and their relatives in English. |
| CLO4: Improve teamwork and collaboration skills in a multicultural environment through group discussions and presentations in English. |
| CLO5: Utilise digital technology for online research, learning, and updating medical information in English. |

OFFICE INFORMATICS AND BASIC STATISTICS

- **Module Code: TK001**

- **Knowledge Classification:**

| | | | |
|---|-----------------------|--|--------------------------------|
| x | Foundation Knowledge | | Fundamental knowledge of Major |
| | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- **Number of Credits: 2** Theory: 0 Practice: 2

- Level of student: First year student

Module Description

This module for first-year students is designed to equip learners with the ability to apply the following:

Probability in diagnostic and therapeutic decision-making processes, elucidating fundamental statistical concepts utilized in medical reports or scientific research articles. They will be able to select appropriate descriptive statistical methods to present medical data in a compelling and lucid manner, test hypotheses, and conduct rudimentary statistical tests.

Basic Office applications.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|---------------------------|---|
| CLO1 | Students perform the good capability of utilising office applications to solve real-life problems and situations not only in studying but also working. |
| CLO2 | In terms of in data processing, students express the ability to present and employ the basic functions of SPSS software. |

GENERAL LAW

- **Module Code:** PL001

- **Knowledge Classification:**

| | | | |
|---|-----------------------|--|--------------------------------|
| x | Foundation Knowledge | | Fundamental knowledge of Major |
| | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- **Number of Credits:** 2 Theory: 2 Practice: 0

- **Level of student:** First year student

Module Description

This module provides students across all disciplines with foundational knowledge on the fundamental theoretical aspects of the State and law, with a specific focus on socialist state and law. It aims to foster correct awareness and perspectives about the Party's guidelines, policies, and the laws of our State. Concurrently, it imparts foundational knowledge about the Vietnamese legal system and certain specific legal fields, thereby enabling students to comprehend the law more effectively and apply it in real-life scenarios.

Learning Objectives

| Objectives (1) | Objectives Description (2) |
|-----------------------|--|
| CLO1 | Students express the ability of comprehension legal documents. |
| CLO2 | Students perform the capability to analyse, reason and solve basic legal problems. |
| CLO3 | Students have attitude of complying with the provisions of law |

NATIONAL DEFENSE MEDICINE

- **Module Code:** QY013

- **Knowledge Classification:**

| | | |
|---|-----------------------------|--------------------------------|
| x | Foundation Knowledge | Fundamental knowledge of Major |
| | Specialised knowledge | Others |
| | General Skills | Internship/ Thesis |

- **Number of Credits:** 4 Theory: 3 Practice: 1

- **Level of student:** First year student

Module Description

- Organise military medical tactics (deploy military medical stations)
- Field surgery (Wounds caused by mines and bullets. Wounds caused by fire weapons)
- Types of toxic chemicals used in war and peacetime in emergency rooms and treatment rooms.
- Field internal medicine
- Military hygiene and epidemiology
- Pharmaceutical supplies during the war.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|---------------------------|---|
| CLO1 | Students are equipped with military medical knowledge. |
| CLO2 | Student perform the ability to deploy military medical stations, supply pharmaceuticals and prepare picnics during the war. |

FOUNDATIONS OF BIOCHEMISTRY

- **Module Code: SH017**

- **Knowledge Classification:**

| | | | |
|--|-----------------------|---|--------------------------------|
| | Foundation Knowledge | x | Fundamental knowledge of Major |
| | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- **Number of Credits: 2** Theory: 2 Practice: 0

- Level of student: First year student

Module Description

Biochemistry serves as a fundamental module within the Medical training curriculum, offering students insights into significant macromolecules that are integral to human life and the chemical metabolism of these macromolecules. These molecules encompass Proteins, Glucids, Lipids, Amino Acids, Nucleic Acids, Enzymes, Vitamins, and Minerals found within the human body. This module enables students to comprehend basic pathologies associated with abnormalities in the chemical metabolism of the aforementioned molecules. This foundational understanding of biochemistry is crucial for students to grasp the intricate workings of the human body at a molecular level and apply this knowledge in their future medical practice.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|---------------------------|---|
| CLO1 | Students have the ability to remember the structure, function and regulation of body fluids, electrolytes and acid-base balance in the body. |
| CLO2 | Students are able to memorise structures, describe functions and mechanisms of action of proteins (enzymes), glucose, lipids, amino acids, nucleotides, hormones, and vitamins. |
| CLO3 | Students are able to understand energy and basic metabolic processes of: carbohydrates, lipids, proteins, nucleotides. |
| CLO4 | Students perform the capability to utilise skills to analyse biological metabolic mechanisms. |

BIOPHYSICS

- **Module Code: LS008**

- **Knowledge Classification:**

| | | | |
|---|-----------------------|--|--------------------------------|
| x | Foundation Knowledge | | Fundamental knowledge of Major |
| | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- **Number of Credits: 2** Theory: 1 Practice: 1

- Level of student: First year student

Module Description

The module employs fundamental principles of physics and biophysics to elucidate various phenomena and processes transpiring in the natural world and living organisms. It leverages the effects and impacts of physical agents for therapeutic and care applications, and elucidates the operational principles and structural descriptions of certain physical machines and equipment utilised in medicine.

The overarching objective is to comprehend phenomena occurring within organisations and living organisms based on the perspectives and laws of physics, ranging from the electronic, atomic level to the holistic body. Concurrently, it involves conducting certain experiments to supplement theoretical knowledge.

The specific objectives or learning outcomes of this module include fostering a comprehension of the interrelationship between the laws governing living organisms and those of physics, as well as comprehending the primary application principles of physics in diagnosis and treatment. It also encompasses the ability to conduct experiments to test and illustrate theoretical results.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|---------------------------|--|
| CLO1 | Students can present and understand what a biological colloidal system is and the physicochemical properties of the biological colloidal system. |
| CLO2 | Students perform the ability to comprehend and apply thermodynamic principles to explain phenomena in living systems. |
| CLO3 | Students are able to present and explain the transport of materials in living organisms. |

| Objectives (1) | Objective Description (2) |
|---------------------------|--|
| CLO4 | Students can present and apply bioelectrical phenomena to explain a number of processes occurring in living organisms and apply them in treatment. |
| CLO5 | This module enables students to present and understand the effects of ionizing rays on living organisms and their applications in biomedicine. |
| CLO6 | Students understand the nature of photobiology and explain the operating principles and applications of optical devices used in health sciences. |
| CLO7 | Students can work in groups to solve topics related to the subject and present presentation skills |
| CLO8 | Students understand, explain and perform the steps of staining and measuring cell size. |
| CLO9 | Student demonstrate the capability to understand and determine the osmotic pressure of solutions and serum using the Bagierast method. |
| CLO10 | Students are able to understand and determine bioelectricity and conductivity of solutions and serum. |
| CLO11 | Students are able understand and determine the number and membrane durability of red blood cells. |
| CLO12 | Students have the ability to comprehend and define electrical current conduction in cells and serum. |
| CLO13 | Students are able to understand the optical properties of the hemoglobin molecule and apply the quantification of hemoglobin copper |

CHEMISTRY

- **Module Code: HH009**

- **Knowledge Classification:**

| | | | |
|---|-----------------------|--|--------------------------------|
| x | Foundation Knowledge | | Fundamental knowledge of Major |
| | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- **Number of Credits: 2** Theory: 15 Practice: 30

- Level of student: First year student

Module Description

It is a basic module in the training programme of university classes majoring in health sciences. The module equips learners with knowledge about the theoretical basis of chemistry, elements in the main subgroups and transition elements, chemical bonds, electrolysis processes, acidity, baseness and constants. balance, basic physical and chemical properties of compounds essential to life.

Knowledge:

Remember the physical and chemical properties and preparation of chemical elements and their compounds; Formulas for calculating equivalents, equilibrium constants, concentration and pH of solutions.

Master the atomic structure; redox processes; Overview of metals and alloys;

Skills:

Solve exercises to calculate equivalents, equilibrium constants, concentration, solution pH, and simple synthesis problems of inorganic and organic compounds.

Apply knowledge of redox reactions, electrolysis, and chemistry of essential elements and compounds of life to explain real-life and specialized phenomena.

Capacity for autonomy and innovation:

Practice seriousness and initiative in learning activities, discussions, and group exchanges. Comply with classroom and school rules and regulations.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|-----------------------------|---|
| CLO1 (Knowledge) | Students present knowledge about atomic structure; redox reaction; complex |
| | Students can explain the formation of covalent bonds in molecules and the electrolysis of substances in solution. |

| Objectives (1) | Objective Description (2) |
|----------------------------|--|
| | Students can apply the formulas to calculate equivalents, equilibrium constants, and pH of solutions. |
| | Students present the structure, physical and chemical properties, and methods of preparing essential functional groups in the structure of organic compounds necessary for life. |
| | Students can present rules and safety regulations in the laboratory |
| CLO2 (Skills) | Students can analyse and solve chemical phenomena occurring in living organisms related to their major. |
| | Students have the ability to develop teamwork skills, improve communication and problem solving skills. |
| CLO3 (Attitude) | Students demonstrate compliance with the rules and regulations of the Faculty, departments, and laboratories. |
| | Students practice initiative in learning activities, improve critical thinking in discussion and group exchange. |
| | Students practice the virtue of honesty |

CELL AND MOLECULAR BIOLOGY

- **Module Code: SH019**

- **Knowledge Classification:**

| | | |
|---|-----------------------|--------------------------------|
| x | Foundation Knowledge | Fundamental knowledge of Major |
| | Specialised knowledge | Others |
| | General Skills | Internship/ Thesis |

- **Number of Credits: 02** Theory: 01 Practice: 01

- Level of student: First year student

Module Description

The module provides foundation knowledge about structure and function from cells to genetic molecules (DNA, RNA, proteins), thereby creating a basic premise for application in modern Medicine and Pharmacy. Specifically, this module focuses on 3 main issues as follows:

- Structure and function of cell components, basic processes occurring in cells such as membrane transport, signal transduction, cell reproduction and death.
- DNA structure, replication and repair; transcription and protein synthesis; Human genomics and pharmacogenomics.
- Common chromosomal and single-gene genetic diseases, methods and techniques used in research, diagnosis and treatment of genetic diseases.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|---------------------------|---|
| CLO1 | Students can comprehend the structure, function, and basic processes that occur at the cell level of organisms in general and humans in particular. |
| CLO2 | Student express the ability of comprehension of the genome and the mechanism of gene expression regulation in organisms and humans. |
| CLO3 | Students are able to analyse common genetic diseases and know tools and methods for diagnosis. |
| CLO4 | Students demonstrate the capability to utilise basic laboratory tools, equipment and methods on cells and biological molecules. |
| CLO5 | Students express workgroup ability. |

EPIDEMIOLOGY

- **Module Code:** DT002

- **Knowledge Classification:**

| | | | |
|--|-----------------------|---|--------------------------------|
| | Foundation Knowledge | x | Fundamental knowledge of Major |
| | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- **Number of Credits:** 04 Theory: 03 Practice: 01

- **Level of student:** First year student

Module Description

The module offers the introduction for methods of approaching, analysing, evaluating and solving health problems using Epidemiology. Some specific issues of this module include: -
The introduction to Epidemiology, description of disease status in the population, identification of risk factors (or protective factors) that affect disease or health.

- The evaluation the effectiveness of treatment methods, disease prevention measures, and health promotion.
- The application of epidemiology in clinical practice and public health practice.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|---------------------------|--|
| CLO1 | Students memorise the basic definitions and concepts of Epidemiology. |
| CLO2 | Students are able to determine appropriate research designs based on the situation |
| CLO3 | Students have the ability to identify problems that may occur when conducting research |
| CLO4 | Students are able to comprehend the applications of Epidemiology |

ENVIRONMENTAL HEALTH AND OCCUPATIONAL DISEASES

- **Module Code: YC008**

- **Knowledge Classification:**

| | | | |
|--|-----------------------|---|--------------------------------|
| | Foundation Knowledge | x | Fundamental knowledge of Major |
| | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- **Number of Credits:** 02 Theory: 02 Practice: 00

- **Level of student:** Third year student

Module Description

The Environmental Health & Occupational Diseases module is for 3rd year medical students. The goal of this module is to help learners remember the basic concepts of environmental health and occupational diseases, recognize Identify risk factors in the living and working environment. At the same time, the module also provides students with basic principles to prevent risk factors affecting health in the living and working environment.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|-------------------|---|
| CLO1 | This module offers the Introduction of fundamental concepts of Environmental Health and Occupational Diseases. |
| CLO2 | Student are able to identify factors that affect health in digital and work environments |
| CLO3 | Student have the introduction of basic principles to prevent factors that affect health in digital and work environments. |

FIRST AID

- Module Code: YC002

- Knowledge Classification:

| | | | |
|---|-----------------------|--|--------------------------------|
| | Foundation Knowledge | | Fundamental knowledge of Major |
| x | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- Number of Credits: 2 Theory: 1 Practice: 1

- Level of student: First year student

Module Description

This is a mandatory, medical introductory module supporting medical students get early exposure to medical issues, giving students their first professional feelings. Students will learn some basic contents of first aid in cases where the victim has stopped breathing, has a foreign object, bleeding, soft tissue injuries, broken bones, and transporting the victim. This module emphasizes practicing first aid for simulated victims/patients, including:

- Basic principles when performing first aid
- Examination of vital signs, basic first aid for respiratory arrest, first aid for foreign objects (airway, digestive tract, eyes, ears, nose), first aid in case of bleeding
- Basic aseptic techniques: Hand washing, wiping hands, wearing gloves, basic bandaging techniques, soft tissue wound care, temporary immobilization of broken bones
- Transport patients/victims by conventional methods with specialized or self-created vehicles.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|---------------------------|--|
| CLO1 | Student have the comprehension of the First Aid module for respiratory arrest. Student have the comprehension of the concept and role of First-aid in life First aid for high fever First aid for foreign objects in the airway and drowning First aid for acute digestive disorders First aid for burns, bleeding wounds, nosebleeds First aid for multiple injuries caused by disasters and accidents. |

| Objectives (1) | Objective Description (2) |
|---------------------------|---|
| CLO2 | Student can perform the communication between physicians with patients Circulatory emergency CPR Transport victims Check vital signs First aid for bleeding |

HOSPITAL LIFE

- **Module Code:** YC003

- **Knowledge Classification:**

| | | |
|-----------------------|---|--------------------------------|
| Foundation Knowledge | x | Fundamental knowledge of Major |
| Specialised knowledge | | Others |
| General Skills | | Internship/ Thesis |

- **Number of Credits:** 02 Theory: 01 Practice: 01

- Level of student: First year student

Module Description

The Hospital Life module is for first year medical students. The objective of this module is to enable learners to comprehend the organisational structure and operation of the hospital, and observe and analyse the roles of the hospital staff. medical staff, issues of medical ethics, safety, science, and services related to health care. Students are guided to own the capability of analysing and applying medical communication skills.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|---------------------------|--|
| CLO1 | Student have the ability to comprehend and present the hospital's organisational structure and operations; roles and responsibilities of medical staff; Ethical aspects of hospital operations |
| CLO2 | Students are able to apply knowledge about exposure to how to handle exposure to exposure factors. |
| CLO3 | Student can comprehend and present issues related to science, technology, service and patient service |
| CLO4 | Students perform the communication skills with patients and medical staff |

MEDICAL PSYCHOLOGY AND ETHICS

- **Module Code:** YC004

- **Knowledge Classification:**

| | | |
|-----------------------|---|--------------------------------|
| Foundation Knowledge | x | Fundamental knowledge of Major |
| Specialised knowledge | | Others |
| General Skills | | Internship/ Thesis |

- **Number of Credits:** 02 ; Theory: 01 ; Practice: 01

- Level of student: First year student

Module Description

The Medical Psychology and Ethics module is a mandatory module for first-year medical students. The content of the Module includes the following basic issues: basic issues of psychology, developmental psychology, biopsychosocial model, psychology of patients and medical staff, stress and warfare. coping strategies, psychotherapy. Additionally, the content of the Module includes: Concepts of ethics, ethical standards and physician ethics, ethical aspects in health care and scientific research on health, as well.

Applications of psychology and medical ethics include: The role of psychology in education and health care; Conduct communication between physicians, patients and colleagues according to professional standards; Conduct professional practice according to conscience, responsibility and standards; Applying psychology in examination and treatment is effective; Diagnosis and use of psychotherapy; Ethical aspects of medical research.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|---------------------------|--|
| CLO1 | Students can apply knowledge of psychology and medical psychology in human health care. |
| CLO2 | Student perform the application of psychology and medical psychology in disease examination and diagnosis; Initially, knowledge and skills of counseling/psychotherapy can be applied to patients along with using other treatments. |
| CLO3 | Student express the capability to comprehend and apply ethical principles in medical practice and research. |
| CLO4 | Student can conduct communication between physicians, patients and colleagues in accordance with professional standards; Conduct professional practice according to conscience, responsibility and ethical standards. |

HEALTH ORGANIZATION AND MANAGEMENT

- **Module Code:** YC031

- **Knowledge Classification:**

| | | | |
|--|-----------------------|---|--------------------------------|
| | Foundation Knowledge | x | Fundamental knowledge of Major |
| | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- **Number of Credits:** 04 Theory: 03 Practice: 01

- **Level of student:** 2nd year student

Module Description

The Health Organization - Management module is designed for second year students in medical training field. The objective of the module is to help learners comprehend foundation knowledge about healthcare organisation and management, and perspectives on healthcare work, law on health protection in the current period. Students are provided with a theoretical basis and practical knowledge to be able to research the impact of social conditions and living environment factors on health and thereby propose measures to protect and improve health. public health.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|---------------------------|---|
| CLO1 | Present the functions and tasks of the Vietnamese health system. |
| CLO2 | Elucidate how to Design, Implement, and Monitor Plans and Processes in Healthcare Organization and Management |
| CLO3 | Implement basic management skills in medical organisation and management |

DEMOGRAPHY

- **Module Code:** YC032

- **Knowledge Classification:**

| | | |
|-----------------------|---|--------------------------------|
| Foundation Knowledge | x | Fundamental knowledge of Major |
| Specialised knowledge | | Others |
| General Skills | | Internship/ Thesis |

- **Number of Credits:** 01 Theory: 01 Practice: 00

- **Level of student:** 2nd year student

Module Description

Demography is a module that provides basic medical knowledge for medical students. Demography is the subject of human population statistics, helping learners understand population characteristics (such as population size and composition) and their change processes. Demography also helps students understand the relationships between factors, such as social and health factors, and population characteristics. In addition, demography introduces some population trends to learners, from which learners can partly predict future population trends. Comprehension of the characteristics, changes of the population and related factors will help learners predict some potential population problems that may occur, and grasp solutions to problems based on them. on related factors, thereby helping learners be better prepared to respond to future social health problems.

Some of the main contents in this module include: population size and growth, population composition and structure, disease and mortality, marriage and fertility, migration and urbanization.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|-------------------|--|
| CLO1 | Remember definitions, theories, and concepts related to population characteristics and population processes. |
| CLO2 | Identify factors related to population processes. |
| CLO3 | Recognise patterns and trends in population issues. |
| CLO4 | Calculate some basic demographic indicators. |

Nutrition & Food Safety

- **Module Code:** YC009
- **Knowledge Classification:**

| | | | |
|--|-----------------------|---|--------------------------------|
| | Foundation Knowledge | x | Fundamental knowledge of Major |
| | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- **Number of Credits:** 2 Theory: 2 Practice: 0
- **Level of student:** third year student

Module Description

Nutrition & Food Safety module is for third year students. The objective of the module is to equip foundation knowledge students about nutrition and food safety including basic issues in nutrition. community nutrition, nutrition-related diseases and food poisoning, specifically as follows:

- Understand general nutrition, roles and needs of basic nutrients
- Apply assessment of individual nutritional status, calculation of energy needs and principles of menu development
- Distinguish common vitamin and mineral deficiency diseases
- Understand diet and treatment of chronic non-communicable diseases related to nutrition and lifestyle
- Understand the causes and effects of food poisoning and principles of food hygiene and safety

The Nutrition & Food Safety Hygiene module helps learners apply the knowledge learned in previous modules into clinical practice at the hospital.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|-------------------|---|
| CLO1 | Comprehend general nutrition, roles and needs of basic nutrients |
| CLO2 | Apply assessment of individual nutritional status, calculation of energy needs and principles of menu development |

| Objectives (1) | Objective Description (2) |
|---------------------------|--|
| CLO3 | Distinguish common vitamin and mineral deficiency diseases |
| CLO4 | Comprehend dietary treatment of chronic non-communicable diseases related to nutrition and lifestyle |
| CLO5 | Comprehend the causes and effects of food poisoning and principles of food hygiene and safety |

BEHAVIORAL SCIENCE AND HEALTH EDUCATION

- **Module Code:** YC033

- **Knowledge Classification:**

| | | | |
|--|-----------------------|---|--------------------------------|
| | Foundation Knowledge | x | Fundamental knowledge of Major |
| | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- **Number of Credits:** 2 Theory: 2 Practice: 0

- **Level of student:** 3rd year student

Module Description

The module offers foundation knowledge in behavioural science and health education. This is the fundamental knowledge necessary for medical staff in care, treatment and prevention. First, students need to understand the role of behaviour in health and behaviour change models. After that, the subject will provide knowledge about health education including content, skills, methods, and means when implementing health education communication. Health education is a way for health workers to help patients and the community change old behaviours (behaviours harmful to health) by providing the right knowledge about health so they can change their ways of awareness on problems and practice healthy behaviours.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|---------------------------|--|
| CLO1 | Memorise concepts and definitions used in Behavioral Sciences and health education |
| CLO2 | Identify appropriate methods, means and skills in each health education situation |
| CLO3 | Apply the health education activities for individuals, groups or communities |
| CLO4 | Develop a health education and communication plan and program evaluation and monitoring plan |

ANATOMY AND PHYSIOLOGY OF HUMAN BODY

- **Module Code:** YC034

- **Knowledge Classification:**

| | | | |
|--|-----------------------|---|--------------------------------|
| | Foundation Knowledge | x | Fundamental knowledge of Major |
| | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- **Number of Credits:** 6 Theory: 4 Practice: 2

- **Level of student:** second year student

Module Description

This fundamental human body module provides students with knowledge and the ability to identify regional, localized and systemic anatomy of the human body, and an understanding of the relationships between structures and organs. in the body as well as the relationship between the body and the environment. In addition, providing knowledge about embryo formation and development helps students understand and explain the anatomical structure of adults as well as major birth defects.

This module combines lectures - self-study and active learning of students - Visual practice on cadavers, bones, models, living people, specimens and other modern audio-visual media (simulators, simulator software for Anatomy). The learning results will be the basis for learning modules in other basic medicine modules and clinical medicine. The main contents include:

- Regional anatomy and topographic anatomy of the upper and lower limbs, head, face, neck, chest and abdomen.
- Anatomy of the nervous, respiratory, cardiovascular, digestive, urinary, genital, sensory, and endocrine systems.
- The development and formation of the human body from fertilization to the fetal stage, especially the formation of digestive, cardiovascular, urinary, genital, and nervous organs.
- Relate the body's physiological functions, organ systems in stages, life and development processes as well as relationships with microorganisms.

The human body module is a prerequisite to help students study well the modules on specialised organ systems in the second and third year.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|---------------------------|---|
| CLO1 | Describe the principles of general anatomy and research objects |
| CLO2 | Understand basic anatomical structures in organ systems and body locations |
| CLO3 | Elucidate the organic correlation between form and function of organ systems in the human body |
| CLO4 | Present the levels of structural organization of the human body and the principle of homeostasis |
| CLO5 | Present the interaction of the human body with microorganisms and the surrounding environment |
| CLO6 | Present the functions of cells, tissues, organs, organ systems and body regulation mechanisms |
| CLO7 | Describe development and embryogenesis |
| CLO8 | Perform safe and correct techniques: mixing medicine, injecting medicine, giving fluids, and measuring blood pressure |
| CLO9 | Follow the correct principles and basic clinical examination skills |

PHARMACOLOGY

- **Module Code:** YC016

- **Knowledge Classification:**

| | | | |
|--|-----------------------|---|--------------------------------|
| | Foundation Knowledge | x | Fundamental knowledge of Major |
| | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- **Number of Credits:** 3 Theory: 2 Practice: 1

- **Level of student:** second year student

Module Description

The module Pharmacology provides student with foundation knowledge about pharmacological mechanisms and factors that affect the effects of drugs. Students are equipped with knowledge about the pharmacological effects of some drugs in the group: drugs that act on the nervous system, cardiovascular system, respiratory system, digestive system; analgesic; antibiotics, anti-tuberculosis, anti-fungal, anti-viral drugs; hormones. The Practice section provides students with foundation knowledge on performing pharmacological experimental models on animals.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|---------------------------|--|
| CLO1 | Student perform the comprehension of knowledge of pharmacokinetics, pharmacodynamics, and mechanism of action of drugs |
| CLO2 | Student perform the comprehension of about the mechanism of action, pharmacological effects, unwanted effects, indications, contraindications, dosage and usage of drug groups |
| CLO3 | Analyse how to choose drugs to use in real situations |
| CLO4 | Carry out a number of pharmacological testing models on animals |

CARDIOVASCULAR SYSTEM

- **Module Code:** YC035
- **Knowledge Classification:**

| | | | |
|--|-----------------------|---|--------------------------------|
| | Foundation Knowledge | x | Fundamental knowledge of Major |
| | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- **Number of Credits:** 3 Theory: 2 Practice: 1
- **Level of student:** second year student

Module Description

Students are fully equipped with integrated knowledge of the cardiovascular system, including the following basic content:

- Morphology of the cardiovascular system
- Normal functions of the cardiovascular system
- Principles of drug treatment of the cardiovascular system
- Pathological changes of the cardiovascular system
- Appropriate skills for recognizing disorders of the cardiovascular system.
- Symptoms, syndromes, and other findings appropriate to the recognition of disorders of the cardiovascular system.
- Preliminary treatment of cardiovascular emergencies

Learning Objectives:

| Objectives (1) | Objective Description (2) |
|-------------------|--|
| CLO1 | Apply knowledge about the structure, normal function and regulation of the cardiovascular system to explain the mechanism of expression of some symptoms of cardiovascular disease. |
| CLO2 | Apply knowledge of anatomy, physiology of the cardiovascular system and pharmacology to explain and explore the structure, function and treatment principles of some common cardiovascular diseases. |
| CLO3 | Perform basic examination skills of the cardiovascular system. |
| CLO4 | Analyse a number of imaging diagnostic techniques and probe the basic functions of the cardiovascular system. |
| CLO5 | Collaborate and work as a team with lecturers, doctors, nurses, and technicians when studying and taking care of patients, complying with the rules and regulations of the department and hospital. |

RESPIRATORY SYSTEM

- **Module Code:** YC036

- **Knowledge Classification:**

| | | |
|-----------------------------|---|--------------------------------|
| Foundation Knowledge | | Fundamental knowledge of Major |
| Specialised knowledge | | Others |
| General Skills | x | Internship/ Thesis |

- **Number of Credits:** 03 Theory: 02 Practice: 01

- **Level of student:** second year student

Module Description

Students will be fully equipped and integrated with respiratory system knowledge, including the following basic content:

- Anatomy and physiology of the upper thoracic respiratory tract, respiratory organs, pleura, blood vessels, lymphatics, lungs, airways.
- Histology: Structure of airways, alveoli, pulmonary capillaries
- Symptomatology: How to examine the lungs, symptoms of respiratory diseases: cough, sputum, wheezing, difficulty breathing.
- Pathology:
 - + Infectious and parasitic diseases.
 - + Diseases caused by: Environment.
 - + Diseases caused by: Immunity, allergies, trauma, neuromuscular disorders, airway obstruction.
- Primary health care in the community:
 - + Infectious diseases: Tuberculosis, acute respiratory infections, pneumonia.
 - + Non-communicable diseases: Occupational lung disease, bronchiectasis, bronchial asthma, lung sequelae. How to manage respiratory diseases right at the facility:
- Examination skills, reading spirometry, arterial blood gas, reading lung X-ray films.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|---------------------------|--|
| CLO1 | Apply knowledge of anatomy, physiology, biochemistry, and embryonic tissues of the respiratory system to explain the mechanism of expression of some symptoms and syndromes of some common respiratory diseases. |
| CLO2 | Apply knowledge of anatomy and physiology of the respiratory system to explain the basis of methods to explore respiratory function |
| CLO3 | Apply basic medical knowledge, symptomatology, and pathology to identify common or dangerous respiratory diseases |
| CLO4 | Perform medical history taking and respiratory examination skills on people. |
| CLO5 | Perform procedural skills related to respiratory diseases on models |
| CLO6 | Collaborate and work as a team with lecturers, doctors, nurses, and technicians when studying and taking care of patients, complying with the rules and regulations of the department and hospital. |

GASTROINTESTINAL SYSTEM

- **Module Code:** YC037

- **Knowledge Classification:**

| | | | |
|---|-----------------------------|--|--------------------------------|
| | Foundation Knowledge | | Fundamental knowledge of Major |
| x | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- **Number of Credits: 03** Theory: 02 Practice: 01

- **Level of student:** second year student

Module Description:

After completing this module, students have the following abilities:

- Present the structure and function of the digestive system (oesophagus, stomach, intestines,...), thorax - blood vessels (lungs, chest,...).
- Identify abnormalities in digestive physiology.
- Recognise basic emergency medical conditions and some general diseases (appendicitis, etc.)
- Perform general abdominal examination and anorectal examination skills.
- Perform peritoneal puncture and nasogastric tube placement skills,

Course learning outcomes:

After completing this module, students will achieve the following output standards:

- CLO1. Presenting the structure and function of abdominal organs (intraperitoneal, retroperitoneal)
- CLO2. Understand the histopathology of digestive system diseases.
- CLO3. Describe the mechanism that regulates digestion and secretion of digestive enzymes
- CLO4. Introduction to Hecolibacter Pylori bacteria, intestinal parasites
- CLO5. Distinguish common emergency diseases of the external system: appendicitis, intestinal obstruction, cholecystitis, cholangitis.
- CLO6. Approach and diagnose diseases that cause digestive symptoms (gastrointestinal bleeding, vomiting, bowel obstruction, portal hypertension).
- CLO7. Recognize and advise on treatment of common internal and external digestive diseases.
- CLO8. Correctly perform anorectal examination skills.
- CLO9. Follow the general abdominal examination steps correctly.
- CLO10 Perform the skills of paracentesis, nasogastric tube placement, and rectal anastomosis
- CLO11. Comprehend the mechanism and effects of some drugs in the treatment of digestive system diseases

UROLOGY SYSTEM AND HEMOSTASIS MODULE

- **Module Code:** YC038

- **Knowledge Classification:**

| | | | |
|---|-----------------------|--|--------------------------------|
| | Foundation Knowledge | | Fundamental knowledge of Major |
| x | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- **Number of Credits:** 3 Theory: 2 Practice: 1

- **Level of student:** Second year student

Module Description

Students are fully equipped with integrated knowledge of the Urology system and Hemostasis, including the following basic content:

- Anatomy of the Urology system.
- Physiology of the Urology system and homeostasis.
- Principles of drug treatment of the Urology system.
- Pathological changes of the Urology system.
- Appropriate skills for recognising disorders of the Urology system.
- Symptoms, syndromes, and other findings appropriate to the recognition of disorders of the Urology system.
- Preliminary treatment of urological emergencies.

Learning Objectives/ Learning Outcomes:

| Learning Objectives |
|---|
| Knowledge |
| Anatomy of the Urology system |
| Physiology of the Urology system and homeostasis |
| Principles of drug treatment of the Urology system |
| Pathological changes of the Urology system |
| Skills appropriate for recognising disorders of the Urology system |
| Symptoms, syndromes, and other findings are appropriate for recognising disorders of the Urology system |
| Preliminary management of urological emergencies |
| Skills |
| Taking medical history - urological medical records |
| Examination of the Urology system |
| Practice basic sterile skills |

Learning Objectives

Practice catheterisation skills

Imaging of the Urology system

- Self-Preparation for lessons before going to class
- Skills in finding necessary materials (on the internet, in textbooks, monographs, etc.)
- Teamwork skill
- Skills in preparing presentations and reports
- Report and presentation skills in front of the class
- Skills to attend presentations and reports of the entire class

Attitude/ Medical Ethics

- Perform the ability to update new knowledge and skills, self-improve and become an expert in the profession.
- Express medical ethics, qualities, and responsibilities of a physician.
- Be dedicated to career, upholding a sense of responsibility.
- Be proactive in preparing lessons before going to class.
- Actively attend class and participate in speaking and constructing lessons.
- Active in group discussions and group report preparation.
- Be active in presenting group discussion results to the class.

NEUROLOGICAL SYSTEM AND PAIN

- **Module Code:** YC039

- **Knowledge Classification:**

| | | | |
|--|-----------------------|---|--------------------------------|
| | Foundation Knowledge | x | Fundamental knowledge of Major |
| | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- **Number of Credits:** 3 Theory: 2 Practice: 1

- **Level of student:** second year student

Module Description

The nervous system includes the central nervous system and peripheral nervous system, which is a basic module in the medical training program, governing body activities including pain sensation, helping students equip more useful and practical knowledge to continuously improve and improve the quality of training, contributing to serving the people better and better. Students can perform examination, diagnosis and treatment skills for important neurological diseases such as meningitis, stroke...

The neurological system and pain module helps students apply the knowledge they have learned in previous modules in clinical practice and helps students study the neurology, neurosurgery, and psychiatry modules well in the fifth year.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|---------------------------|--|
| CLO1 | Present the histological anatomy of the central nervous system applied to the diagnosis and treatment of diseases. |
| CLO2 | Elucidate and analyse the characteristics of the central and peripheral nervous systems in normal physiology and common pathologies. |
| CLO3 | Apply the mechanism of action of some drugs on the nervous system - pain in the treatment of nervous system diseases. |
| CLO4 | Perform skills to detect disorders of the nervous system: lumbar puncture, neuromuscular examination. |

ENDOCRINE SYSTEM AND METABOLISM

- **Module Code:** YC040

- **Knowledge Classification:**

| | | | |
|---|-----------------------|---|--------------------------------|
| x | Foundation Knowledge | x | Fundamental knowledge of Major |
| | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- **Number of Credits:** 03 Theory: 02 Practice: 01

- **Level of student:** second year student

Module Description

The module Endocrine system and metabolism is designed for second year students. The goal of this module is to help learners understand anatomy, physiology, embryonic tissue and some common diseases in the endocrine system. Students can perform some basic endocrine examination skills.

The Endocrine System and Metabolism module helps students apply the knowledge learned in previous modules in clinical practice and helps students study the Clinical Endocrinology module well in the fifth year.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|---------------------------|--|
| CLO1 | Analyse the reasons for coming for examination: Overweight/feeling too fat, weight loss/too thin, anorexia, overeating, excessive thirst/drinking a lot, frequent urination, changes in skin colour, hirsutism, goiter , bulging eyes, myxedema. |
| CLO2 | Understand how to diagnose, treat and prevent common endocrine diseases: thyroid disorders, adrenal disorders, diabetes, lipid metabolism disorders, genetic metabolic diseases. |
| CLO3 | Measure anthropometric parameters (weight, height, body mass index, waist circumference, hip circumference, subcutaneous fat layer). |
| CLO4 | Perform general examination of the endocrine system: examine skin, hair, nails, look and feel goiter. |

MUSCULOSKELETAL MODULE

- **Module Code:** YC041

- **Knowledge Classification:**

| | | | |
|---|-----------------------------|--|--------------------------------|
| | Foundation Knowledge | | Fundamental knowledge of Major |
| x | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- **Number of Credits:** 3 Theory: 2 Practice: 1

- **Level of student:** third year student

Module Description

This module is provided to third-year students. Students will learn about the basic principles of diagnosing musculoskeletal diseases, treating common musculoskeletal diseases, and restoring function. Learning content includes:

- Describe the morphology of the locomotor system
- Present the normal functions of the motor system
- Present the epidemiological and primary health care aspects of traffic accidents in Vietnam in general and the Southeast region in particular.
- Implement appropriate selection skills for detecting disorders of the musculoskeletal system (fractures, dislocations, joint diseases such as arthritis, osteoarthritis, etc.)
- Present common pathological changes and principles of medical (internal) and surgical treatment of the motor system
- Normal and pathological imaging of the striatal system (X-ray, CT-scan, MRI, ...)
- Treatment methods for internal and surgical diseases of the motor system.
- In this module, students are also introduced to the basic issues of rehabilitation.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|--|---|
| CLO1. Comprehend foundation knowledge about musculoskeletal issues | Comprehend and apply foundation knowledge on musculoskeletal anatomy and physiology, and common musculoskeletal diseases |
| CLO2. Perform some basic musculoskeletal skills | Demonstrate skills in examining, diagnosing and treating common musculoskeletal diseases and emergency conditions in the locomotor system |
| CLO3. Express standard attitudes and behaviours | Cultivate attitudes toward the profession and standard behaviour of physicians |

AGING, CHRONIC DISEASES AND DISABILITY

- **Module Code:** YC0026

- **Knowledge Classification:**

| | | |
|-----------------------|---|--------------------------------|
| Foundation Knowledge | x | Fundamental knowledge of Major |
| Specialised knowledge | | Others |
| General Skills | | Internship/ Thesis |

- **Number of Credits:** 02 Theory: 02 Practice: 00

- **Level of student:** third year student

Module Description

Aging, Chronic Diseases and Disability is designed for third students.

This module provides students with fundamental concepts about Geriatrics, chronic diseases and disabilities. Some specific issues of this module are as follows:

- Helps students understand the aging of organ systems
- Supports student the ability of explaining some common diseases in the elderly according to the cardiovascular, nervous, respiratory, musculoskeletal, urinary, and genital systems.
- Helps students apply the knowledge they have learned in previous modules in clinical practice and helps students study the Clinical Internal Medicine module well in fourth and sixth year.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|---------------------------|---|
| CLO1 | Introduce fundamental concepts of aging of organ systems. |
| CLO2 | Elucidate some common diseases in the elderly according to the cardiovascular, nervous, respiratory, musculoskeletal, urinary, and genital systems. |

PATHOGENIC ORGANISMS AND INFECTIOUS DISEASES

- **Module code:** YC045
- **Knowledge classification:** Fundamental Knowledge of Major
- **Number of Credits:** 5 **Theory:** 4 **Practice:** 1
- **Level of student:** third year

Module Description:

There are 4 main parts:

- Pathogenic organisms, including viruses, bacteria, fungi and parasites and infections caused by them. The general knowledge describes the shape-structure properties of these agents, their ability to cause disease by virulence or environmental factors affecting pathogenesis. The parasitic-host relationship manifests itself from the body's struggle against the invading organism to the clinical manifestations of disease stages used for diagnosis and prevention. The epidemiological chain describes the infectiousness of the infected individual spreading to the population.
- Infections are introduced integrity-based problem and according to the system of organs infected with the organism (respiratory tract, skin-soft tissues, gastrointestinal tract, central nervous system, blood tract, urogenital system, eyes).
- Directions for treatment of infectious diseases in terms of organism-specific antibiotic therapy, supportive measures. Students also learned about the resistance of organisms through the mechanism of drug resistance.
- In the practice lab, students learn how to take specimens; staining specimens; identifiers; do an antibiogram.

Learning outcomes/Objectives:

| Learning Objectives |
|--|
| CLO1: Distinguish between microorganisms (bacteria, viruses, parasites, etc.) that cause common infectious diseases in Vietnam. |
| CLO2: Apply the biological properties of microorganisms (bacteria, viruses, parasites, ...) learned to explain the pathogenesis of common infections in Vietnam. |
| CLO3: Present the mechanism of epidemic formation by microorganisms that cause infectious diseases. |
| CLO4: Comprehend the methods of prevention for some common infections in Vietnam (malaria, dengue hemorrhagic fever, chickenpox, measles, tuberculosis, HIV, ...). |
| CLO5: Utilise light microscope well to identify microorganisms from clinical smears or cultures. |

REPRODUCTIVE SYSTEM, GESTATION AND REPRODUCTION

- **Module Code:** YC046

- **Knowledge Classification:**

| | | | |
|---|-----------------------|---|--------------------------------|
| | Foundation Knowledge | x | Fundamental knowledge of Major |
| x | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- **Number of Credits:** 05 Theory: 04 Practice: 01

- **Level of student:** third year student

Module Description

The module Reproductive system, Gestation and Reproduction is designed for third year students. The objective of the module is to help learners present the anatomy and physiology of female genital organs and some common diseases. Students can perform some basic skills in obstetrics and gynaecology practice such as prenatal examination, gynaecological examination, speculum placement, and PAPs.

This module helps students apply the knowledge learned in previous modules to analyse common situations in the field of obstetrics and gynaecology and helps students study the module well. Clinical Obstetrics and Gynaecology 1 and 2 in the fifth and sixth year.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|---------------------------|---|
| CLO1 | Present the structure and function of the female genital organs and pelvis |
| CLO2 | Describe the mechanism that regulates the production and effects of female sex hormones and male sex hormones |
| CLO3 | Describe the formation and development of the fetus from conception to maturity |
| CLO4 | Introduce male and female infertility |
| CLO5 | Distinguish common gynaecological diseases: genital inflammation, uterine fibroids, ovarian cysts |
| CLO6 | Analyse the diseases that cause bleeding symptoms in the first 3 months of pregnancy |

| Objectives (1) | Objective Description (2) |
|---------------------------|---|
| CLO7 | Analyse common complications in the mammary gland during breastfeeding |
| CLO8 | Follow the correct steps for prenatal examination, gynaecological examination and cervical cell smear |
| CLO9 | Consult on choosing contraceptive methods and abortion methods |

NEW-BORN, CHILDREN AND ADOLESCENTS

- **Module Code:** YC047

- **Knowledge Classification:**

| | | | |
|---|-----------------------------|--|--------------------------------|
| | Foundation Knowledge | | Fundamental knowledge of Major |
| x | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- **Number of Credits:** 05 Theory: 04 Practice: 01

- **Level of student:** third year student

Module Description

This module is for students of third year. The objective of the module is to help learners be able to analyse the anatomical and physiological characteristics of children in stages. growth; Analyse the characteristics of physical and mental development, thereby explaining the principles of care, nutrition and vaccination in children; Analyse the characteristics of organ systems in children, thereby explaining paediatric syndromes and symptoms; Practice child examination skills and basic emergency treatment operations on the model.

This module, additionally, helps students realise the importance of general knowledge of Paediatrics and knowledge of basic Paediatric procedures.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|---------------------------|---|
| CLO1 | Analyse the anatomical and physiological characteristics of children according to growth stages. |
| CLO2 | Analyse the characteristics of physical and mental development, thereby explaining the principles of care, nutrition and vaccination in children. |
| CLO3 | Analyse the characteristics of organ systems in children, thereby explaining paediatric syndromes and symptoms. |
| CLO4 | Practice child examination skills on a model. |
| CLO5 | Practice basic emergency treatment operations on the model. |
| CLO6 | Recognise the importance of general knowledge of Paediatrics and knowledge of basic Paediatric procedures. |

FORENSIC MEDICINE

- **Module Code:** YC030

- **Knowledge Classification:**

| | | | |
|---|-----------------------|--|--------------------------------|
| | Foundation Knowledge | | Fundamental knowledge of Major |
| x | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- **Number of Credits:** 01 Theory: 01 Practice:00

- **Level of student:** 3rd year student

Module Description

Forensic Medicine is one of the required specialized subjects in medical training. Through studying and researching Forensic Medicine, students are equipped with foundation knowledge and an overview of the role of Medicine and other majors in participating in solving legal problems.

Through studying the Forensic Medicine module, students can:

- Introduce the forensic science, research objects and research methods of the industry,
- Comprehend foundation knowledge about death, variations in corpses and causative factors,
- Comprehend foundation knowledge on issues: autopsy, trauma, accidents, asphyxiation, sexual medicine, abortion.
- Search, update the knowledge system and present an essay on one of the research contents of forensic medicine,
- Comprehend the role, relationship and coordination between forensic units, legal agencies and medical agencies in resolving legal issues related to human health and life.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|---|---|
| CLO1. Comprehend foundation knowledge of the module | Comprehend the role of Forensic Medicine, present the basic activities of doctors in legal work related to human health and life. |

| Objectives (1) | Objective Description (2) |
|---|---|
| CLO2. Understand basic theories of Traumatology, Asphyxia, Necropsy, Toxicology, Sexual Medicine, Abortion) | Understand and apply foundation knowledge of physiology and pathology in some forensic medicine issues. Present information according to basic forensic document templates. |
| CLO3. Cultivate attitudes and medical ethics | Cultivate attitudes toward the profession and standard behavior of physicians |

NURSING SKILLS

- **Module Code:** YL041

- **Knowledge Classification:**

| | | | |
|---|-----------------------|--|--------------------------------|
| x | Foundation Knowledge | | Fundamental knowledge of Major |
| | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- **Number of Credits:** 02 Theory: 0 Practice: 02

- **Level of student:** third year student

Module Description

This module belongs to the foundation knowledge module group for third year I students, studied at the end of the 6th semester in the training programme. This module provides knowledge, attitudes, and skills for students to provide safe and effective care to restore, maintain, and improve the health of patients/relatives. When caring for patients at the hospital, it helps students develop basic nursing practice skills. At the same time, develop assessment skills, problem solving, infection control, evidence-based practice, communication skills, develop relationships with patients/relatives and work effectively with the care team

Learning Objectives

| Objectives (1) | Objective Description (2) |
|---------------------------|---|
| CLO1 | Identify complications and how to handle patient care. |
| CLO2 | Identify patient care needs when implementing care techniques. |
| CLO3 | Analyse important factors affecting the implementation of care techniques to ensure patient safety |
| CLO4 | Implement patient care techniques safely and effectively. |
| CLO5 | Practice effective and safe use of drugs, chemicals and equipment in specialized practice. |
| CLO6 | Practice effective communication with patients/caregivers, colleagues and other medical staff during patient care |
| CLO7 | Humbly learn, actively study to improve professional qualifications. |

CLINICAL INTERNAL MEDICINE 1

- Module Code: YL042

- Knowledge Classification:

| | | |
|-----------------------------|---|--------------------------------|
| Foundation Knowledge | | Fundamental knowledge of Major |
| Specialised knowledge | | Others |
| General Skills | x | Internship/ Thesis |

- Number of Credits: 06 Theory: 0 Practice: 06

- Level of student: fourth year student

Module Description

Students will be fully equipped with knowledge about the following basic content:

- Fully and accurately detection for symptoms of diseases according to the lecture list.
- List of symptoms into syndromes and present the patient's problems (summarise the medical history and pose the problem).
- Reasoning for the diagnosis the given problems (confirm diagnosis, differential diagnosis and request necessary tests).
- Analysis of all tests according to specific requirements.
- Statement for the principles of treatment and prognosis.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|-------------------|---|
| CLO1 | Recognise symptoms of common medical diseases |
| CLO2 | Apply basic medical knowledge, symptomatology, and pathology to confirm and differentiate diagnoses of some common medical diseases |
| CLO3 | Exploit a complete medical history and medical history |
| CLO4 | Competently perform the examination steps of the Internal Medicine medical record |
| CLO5 | Analyse the results of some routine clinical tests and diagnoses |
| CLO6 | Empathise and sympathise with patients and families, respect the feelings, privacy needs, and beliefs of patients and families |
| CLO7 | Collaborate and work as a team with lecturers, doctors, nurses, and technicians when studying and taking care of patients, complying with the rules and regulations of the department and hospital. |

CLINICAL OBSTETRICS AND GYNAECOLOGY 1

- **Module Code:** YL046

- **Knowledge Classification:**

| | | | |
|---|-----------------------------|---|--------------------------------|
| | Foundation Knowledge | | Fundamental knowledge of Major |
| x | Specialised knowledge | | Others |
| | General Skills | x | Internship/ Thesis |

- **Number of Credits:** 06 Theory: 00 Practice: 06

- **Level of student:** 5th year student

Module Description

Clinical obstetrics and gynaecology 1 is designed for fifth year students. The objective of the module is to help students be able to analyse the management of normal or abnormal pregnancy, and evaluate labour and birth and safely perform routine birthing techniques. Students can perform some obstetrics and gynaecology skills in cervical cancer screening and partial biopsy curettage.

The Clinical Obstetrics and Gynaecology module 1 helps learners apply the knowledge learned in previous modules in clinical practice and helps students study the Clinical Obstetrics and Gynaecology module 2 well in the sixth year.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|---------------------------|---|
| CLO1 | Evaluate labour is normal or abnormal |
| CLO2 | Analyse pregnancy management for a normal or abnormal pregnancy |
| CLO3 | Safely perform the technique of delivering a cephalic birth and cutting and suturing the perineum |
| CLO4 | Safely perform partial curettage biopsy and PAP smear techniques |

INFECTIOUS DISEASES

- **Module Code: YL005**

- **Knowledge Classification:**

| | | | |
|---|-----------------------|--|--------------------------------|
| | Foundation Knowledge | | Fundamental knowledge of Major |
| x | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

Module Description:

This module is for the fourth year student. The objective of the module is to help students be able to apply foundation knowledge on pathogenic microorganisms and epidemiology to diagnose, treat and prevent common and emerging infectious diseases.

Learning Objectives:

| Objectives (1) | Objective Description (2) |
|---------------------------|---|
| CLO1 | Diagnose common infectious diseases* through the combination and analysis of epidemiological, clinical and laboratory information. |
| CLO2 | Provide basic treatment for common infectious diseases* and handle a number of important situations related to infectious diseases. |
| CLO3 | Advise on infection prevention and basic vaccinations. |
| CLO4 | Complete a full and satisfactory infectious disease history. |

OTOLARYNGOLOGY

- **Module Code:** YL034

- **Knowledge Classification:**

| | | | |
|---|-----------------------|--|--------------------------------|
| | Foundation Knowledge | | Fundamental knowledge of Major |
| x | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- **Number of Credits:** 02 Theory: 01 Practice: 01

- **Level of student:** fifth year student

Module Description

The position of the subject in the training programme: it is part of the general goal of integrating and applying basic medical and scientific knowledge and skills to diagnose and treat ENT diseases of human.

Purpose of the module: fully equip students with knowledge of Ear, Nose and Throat about the following basic contents:

- + Fully and accurately detect symptoms of diseases according to the lecture list.
- + Gather symptoms into syndromes and provide a list of problems (summary of medical history).
- + Diagnose the given problems (confirm diagnosis, differential diagnosis and request necessary tests).
- + Analyse all tests according to specific requirements.
- + Carry out treatment of diseases (according to the available list): principles, specific applications, pharmacology of drugs, ...
- + Can perform some basic tricks and practice some complex tricks.
- + Apply backup.
- Main content:
 - + Anatomy and physiology of the ear, nose and throat.
 - + Common diseases in the ear, nose and throat: acute - chronic laryngitis, nasopharynx, acute - chronic rhinosinusitis, acute - chronic otitis media, adenoiditis, tonsils, neck tumours.
 - + Emergency care in the ear, nose and throat.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|---|---|
| CLO1. Comprehend the knowledge | Comprehend and apply foundation knowledge on the anatomy and physiology of the ear, nose and throat, and common ENT diseases. |
| CLO2. Perform some skills | Demonstrate skills in examining, diagnosing and treating common ear, nose and throat diseases and emergency ear, nose and throat conditions |
| CLO3. Cultivate the attitude and medical ethics | Cultivate professional and proper attitudes and behaviors with patients and relatives, with colleagues and friends, and with studies |

ENGINEERING SOLUTIONS FOR MEDICINE

- **Module Code:** YT015.

- **Knowledge Classification:**

| | | | |
|--|-----------------------------|---|--------------------------------|
| | Foundation Knowledge | | Fundamental knowledge of Major |
| | Specialised knowledge | X | Others |
| | General Skills | | Internship/ Thesis |

- **Number of Credits:** 1 Theory: 1 Practice: 0

- **Level of student:** fifth year student

Module Description

This is an integrated elective course for fifth-year students. The module provides technical solutions on various aspects encountered in Medicine. Lectures are presented in seminar format by biomedical engineers from various medical device companies.

By the end of the module, students will understand which technology is better suited to certain medical needs and will also be able to balance cost/quality to choose the right medical device and fully explore the options available. function of the device.

Learning Objectives

| Objectives | Objective Description |
|-------------------|--|
| CLO1 | Present foundation knowledge about modern medical technology. |
| CLO2 | Demonstrate knowledge about choosing an appropriate solution to a problem. |
| CLO3 | Apply skills in choosing appropriate equipment based on needs and budget. |

HEALTH COMMUNITY PRACTICE

- **Module Code:** YL018

- **Knowledge Classification:**

| | | | |
|---|-----------------------------|--|--------------------------------|
| | Foundation Knowledge | | Fundamental knowledge of Major |
| X | Specialised knowledge | | Others |
| | General Skills | | Internship/ Thesis |

- **Number of Credits:** 04 Theory: 00 Practice: 04

- **Level of student:** fifth year student

Module Description

The Health Community Practice module is for fifth year medical students. The goal of this module is to help learners understand more about the activities of the grassroots medical level. This module helps students apply the knowledge they have learned in previous modules in practical activities at the grassroots medical level.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|---------------------------|---|
| CLO1 | Understand the medical activities of a commune/ward health station. |
| CLO2 | Present and practice some skills in medical examination and treatment and first aid in the community |
| CLO3 | Collect and analyse necessary information about health and medical activities in the community. |
| CLO4 | Develop and implement a community health intervention plan based on the actual situation of the community |

FINAL EXAMINATION

- **Module Code:** YN003

- **Knowledge Classification:**

| | | | |
|--|-----------------------------|---|--------------------------------|
| | Foundation Knowledge | | Fundamental knowledge of Major |
| | Specialised knowledge | | Others |
| | General Skills | x | Internship/ Thesis |

- **Number of Credits:** 05 Theory: 0 Practice: 05

- **Level of student:** sixth year student

Module Description

The Graduation Exam/Graduation Thesis module is for the sixth year students. The objective of the module is to help learners after graduation have the ability to undertake medical examination and treatment, scientific research, and answer questions meeting job requirements at medical facilities with the title of treating doctor, at training facilities in the health sciences sector with the title of lecturer and researcher.

The Graduation Exam/Graduation Thesis module helps students after graduation have the ability to continue studying and researching at higher levels not only domestically but also internationally.

Learning Objectives

| Objectives (1) | Objective Description (2) |
|---------------------------|--|
| CLO1 | Apply basic scientific knowledge, evidence-based medicine, basic medicine and clinical medicine in health care practice. |
| CLO2 | Analyse clinical and subclinical information to establish diagnoses and treatment plans for common diseases; Able to safely prescribe medications; Advise on appropriate preventive and nutritional measures for patients. |
| CLO3 | Communicate and coordinate effectively with patients; Implement and maintain a safe professional working environment. |
| CLO4 | Comply with legal regulations and professional ethical standards in health care practice; Demonstrate professionalism in patient care. |
| CLO5 | Apply knowledge and skills to build and implement personal development and lifelong learning plans; apply scientific research; motivate and inspire others. |