



UNIVERSITY OF MALTA
Institute of Health Care

ERASMUS COURSE PROGRAMME
- MALTA -



Education and Culture
Socrates

Division of Radiography Studies

January – April



ERASMUS COURSE PROGRAMME

The course programme for the ERASMUS students during the exchange programme will be composed of the following study units:

Code	Unit Title	ECTS Credit Value	Level	T/P	Assessment Mode
CPH 3201	Pharmacology for Radiographers	2	3	T	Test
RAD 1062	Principles and Practice of imaging : Pharmacology Practice	4	1	T	PBL Presentation
RAD 2061	Quality Assurance & EU Legislation	2	2	T	Presentation
RAD 2060	Clinical Studies: General and Speciality Imaging	8	2	T	Clinical Assessment
MAL 0004	Introduzzjoni ghal-lingwa Maltija (kors applikat)	2	0	T	Test orali u test miktub
IHC 0101	Maltese Culture	2	0	T	Assignment

CREDIT SUMMARY	<i>Theoretical</i>	12 ECTS
	<i>Clinical</i>	8 ECTS
	Total	20 ECTS

UNIT DESCRIPTION

Unit Title: - Pharmacology for Radiographers
Code: - CPH 3201
Credit Value: - 2 ECTS

Learning Objectives

- i. To provide a sound understanding of the principles underlying the therapeutic action of drugs.
- ii. To give students a general introduction to pharmacokinetics i.e. the determinants of the time course of the drug in the body, applying pharmacokinetic principles in order to provide rational drug therapy.
- iii. To understand the mechanism, modes of actions and pharmacology of drugs used in radiography department.

Content

- Drug actions, receptors
- Routes of drug administration
- Different processes in drug therapy
- Pharmacokinetics, principles of LADME system: drug absorption mechanisms, distribution, metabolism, elimination
- Contrast media
- Drugs used in radiography department
- Cardio-respiratory arrest
- Drugs acting on CNS
- Drugs affecting GI motility
- Steroids and sedatives
- Laxatives and opioids
- Emergency equipment
- Anaesthetics
- Antiseptics
- Techniques for correct handling and storage of drugs

Type

Lectures, seminars, assignments and credit test.

Assessment

In the continuous and final mode: i.e. continuous assessments and final credit test at the end of the study unit

Result

Percentage mark and grade.

Lecturers

Dr. Janet Mifsud
Dr. Anthony Fenech

Unit Title: - Principles and Practice of Imaging: Pharmacology Practice
Code: - RAD 1062
Credit Value: - 4 ECTS

Learning Objectives

At the end of the unit the student will be acquitted with the emergency drug trolley and be able to distinguish between the different drugs and their use in the case of allergic reactions.

Unit Content

This unit will deal with the drugs found on the emergency trolley in the Medical Imaging Department and their use in case of allergic reactions to contrast medicine. Other components in the unit include anaesthetics, antiseptics and techniques for the correct handling and use of drugs. Several PBL case studies will be given to the students to provide them with the opportunity to apply in practice the theoretical knowledge gained from the unit CPH3201 Pharmacology for Radiographers. In this regard, students will be assigned to groups and they will need to research and present the findings to their colleagues.

Assessment Mode

Presentation of case study

Lecturers

Dr. Paul Bezzina
Mr. Frank Zarb
Mr. Jonathan Portelli

Unit Title: - Maltese Culture
Code: - IHC 0101
Credit Value: - 2 ECTS

Areas dealt within this unit

- The geographical position of Malta in relation to its history
- The artistic treasures in Malta from prehistory to modern times
- The archaeological remains of the Maltese islands
- The order of St John in Malta
- The impact of the Order of St John on the Maltese Islands
- The British in Malta

Objectives

By the end of the units the students will learn about the history and culture of the Maltese islands.

Unit content

This unit will consist of various lectures, discussions and site visits to various historical places of interest.

Assessment mode:

Assignment

Lecturer

Mr. Vince Zammit

Unit Title: - **Introduzzjoni ghal-lingwa Maltija (kurs applikat)**
Code: - **MAL 0004**
Credit Value: - **2 ECTS**

Description

L-għan tal-kors hu li jgħin lill-istudenti barranin jibnu qafas bażiku fil-lingwa Maltija u jitharrġu fil-ħiliet ta' l-ilsien - taħdit, smiġħ, qari u kitba. It-tema ġenerali li torbot id-damma ta' lezzjonijiet tindirizza sitwazzjonijiet varji u r-relazzjoni bejn it-tabib/radjografista u l-pazjent/a f'kuntest fejn tidhol il-kura medika. Is-sessjonijiet jagħtu wkoll lok għal taħdit f'sitwazzjonijiet komuni li kull persuna tiltaqa' magħhom.

The aim of this course is to help foreign students build a basic knowledge in the Maltese language. Students will learn about the pronunciation and phonetics of the Maltese language and will be taught how to read and write some basic words in Maltese that can help in the radiography clinical setting as well as in basic day to day conversations.

Reading List

Camilleri Grima, A. (1997) *Merħba Bik: Welcome to a course in Maltese for foreigners*. Malta: Colour Image.

Mifsud, M. & Borg, A. (1997) *Fuq l-Għatba tal-Malti. A Threshold Level Description of Maltese*. Strasbourg: Council of Europe.

Vella, Joseph (1993) *Learn Maltese: Why not?* Malta: Valletta Publishing.

Assessment mode

Test orali u test miktub
Written and oral test

Lecturer

Mr. David Muscat

Unit Title: - Quality Assurance and EU Legislation
Code: - RAD 2061
Credit Value: - 2 ECTS

This course is designed as an Introduction to Quality Assurance (QA) in Radiography. Basic QA principles will be reviewed and related to the running of the Imaging Department. This unit will be divided into three components dealing with patient quality, equipment quality and physics.

Objectives:

At the end of the course the student will be able to discuss:

- Definitions of QA
- Basic principles of QA
- Necessity of QA programmes
- Principles behind a reject analysis
- Principles behind sensitometric and equipment tests

Assessment Mode:

Presentation

Lecturers

Dr. Carmel J. Caruana
Mr. Frank Zarb

Clinical Placement

Unit Title: - Clinical Studies: General and Speciality Imaging
Code: - RAD 2060
Credit Value: - 8 ECTS

Upon completion of the clinical placement the student will be able to:

- Give adequate information as regards patient preparation
- Set the room up appropriately for each case
- Demonstrate an ability to manage his / her own workload and be aware of the necessity to prioritise patients according to the severity of their condition
- Explain the procedure to the patient
- Provide a high standard of patient care
- Manipulate the equipment, console settings and process images as required for the particular examination
- Give information to patients before leaving the department
- Be aware of radiation hazards to patients and staff and provide appropriate protection
- Demonstrate awareness of the safe principles involved in the administration of drugs orally, subcutaneously and intramuscularly
- State what ancillary equipment and contrast media is needed for each procedure
- Give an overview of the role of the radiographer in the different modalities
- Give an overview of the basic physical principles of the different modalities used
- Evaluate and discuss the different techniques between different cultures

Lecturers

Dr. Paul Bezzina
Mr. Frank Zarb
Mr. Jonathan Portelli

Assessment Mode:

Clinical Assessment /Case Study/Clinical Portfolio

Unit Title: - Primary Health Care

During the ERASMUS course programme the students will be introduced to the principles of Primary Health Care.

The aims of this unit are to:

- ❖ Introduce the concept of Primary Health Care as outlined by the WHO
- ❖ Examine the Health for all targets
- ❖ Explore the concept of multidisciplinary health care and intersocial co-operation
- ❖ Global indicators
- ❖ Identity individual roles and functions of the primary health care team
- ❖ Discuss the use and application of current radiography research and developments within the context of primary health care

This area is not assessed and therefore does not carry any credit value.

Lecturer

Ms Rebecca Cachia Fearn