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UNIVERSITY OF MALTA
Faculty of Health Sciences
Department of Radiography



ERASMUS Radiography Group
<http://www.erasmus-rad-group.org/>



Education and Culture DG

Lifelong Learning Programme

**ERASMUS
COURSE PROGRAMME**

Jan - Apr 2012

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	Assignment (40%) Written Exam (60%)
RAD 1062	Principles and Practice of imaging : Pharmacology Practice	4	1	T	Presentation
RAD 3061	European Legislation on Medical Devices and Physical Agents	2	2	T	Presentation
RAD 2060	Clinical Studies: General and Speciality Imaging	8	2	T	Clinical Assessment
MAL 0004	Introduzzjoni għall-Ilsien Maltija (<i>kors applikat</i>)	2	0	T	Oral Exam (40%) Written Exam (60%)
IHC 0101	Maltese Culture	2	0	T	Assignment

STUDY UNIT SUMMARY *Theoretical* 12 ECTS

Clinical 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

Assessment mode

Assignment (40%)
Written Examination (60%)

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 a 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 għall-Ilsien Malti (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.

Assessment mode

Ezami orali (40%) u ezami miktub (60%)
Oral examination (40%) and written examination (60%)

Lecturer

Mr. David Muscat

Unit Title: - European Legislation on Medical Devices and Physical Agents
Code: - RAD 3061
Credit Value: - 2 ECTS

The unit presents an overview of European legislation regarding medical devices and physical agents (ionising and non-ionising radiation, magnetic fields, laser etc).

Study unit aims:

1. To ensure that students have a good overview of European legislation regarding medical devices and physical agents (ionising and non-ionising radiation, magnetic fields, laser etc).
2. To create a strong awareness among students of the ways in which such legislation impacts directly or indirectly their practice.

Learning Outcomes:

1. List and describe European legislation regarding medical devices and physical agents (ionising and non-ionising radiation, magnetic fields, laser etc).
2. Discuss ways in which such legislation impacts directly or indirectly their practice.
3. Analyse and translate in layman's terms the legal terminology used in directives concerning medical devices and physical agents.

Assessment Mode:

Presentation

Lecturers

Dr. Carmel J. Caruana

Clinical Placement

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

Students are expected to perform a minimum of 200 hours in clinical placement within the Medical Imaging Department. Upon completion of the clinical placement the student should 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

Assessment mode:

Clinical Tasks/Case Study/Clinical Portfolio

Lecturers

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