



ESCOLA SUPERIOR DE TECNOLOGIA
DA SAÚDE DO PORTO
POLITÉCNICO DO PORTO

(Superior School of Health Technology of Porto)





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Introduction

Since 1993 the Superior School of Health Technology of Porto is integrated in the Higher education System at a Polytechnic level. Until the end of 1999 it runs under the supervision of two Ministries, of Education and Health.

In the beginning of the year 2000 the School will run only under the supervision of the Ministry of Education.

This academic year, 1999-2000, the School will give, for the first time, the degree of Licentiate.

Despite our School suggested a under graduated teaching of only 4 years, the Government decide to have a undergraduate teaching in two stages:

- 3 years of study, giving the Title of Bachelor
- 4 years of study giving the title of Licentiate

UNDER GRADUATE TEACHING FOR:

- Medical and Public Health Laboratory Technologist
- Pathology Anatomy Technologist
- Cardiopneumography Technologist
- Environment Health Technologist
- Neurophysiography Technologist
- Nuclear Medicine Technologist
- Occupational Therapist
- Pharmacy Technician
- Physiotherapist
- Radiologic Technologist
- Radiotherapy Technologist
- Speech Therapist

RADIOLOGIC TECHNOLOGIST

The Radiologic Technologist acts in the ambit of the clinical radiology, in the diagnosis areas, therapeutics, prevention and promotion of the health, investigation, administration and teaching.

In the clinical practice, he applies the methods and the underlying techniques to the accomplishment of examinations, using sophisticated equipment in the acquisition, processing and evaluation of the obtained images, in attention the clinical information, in the areas of the conventional radiology, mamography, computed tomography, magnetic resonance, digital angiography and bone densitometry.

With the fast scientific and technological evolution in this area is foreseen that the field of these professionals intervention is in constant form development to accompany the state of the art.

AIMS OF THE COURSE

At the end of the course the students must be able to:

- Co operate in the identification and problem resolution in Health
- Plan, execute and assess de techniques of image
- Apply protection rules against ionising radiations
- Control the equipments and accommodation quality
- Co operate with the management of the departments
- Develop research studies in the area of radiology

DISCIPLINES

YEAR 1	TOTAL HOURS	YEAR 3	TOTAL HOURS
Anatomy I and II	120H	Seminars	90H
Physiology I and II	120H	Clinical education I	900H
Bioethical and Professional Issues	60H	Project	60H
Biomathematical and BioStatistics I and II	120H		
Applied Physics I and II	120H	YEAR 4	
Investigation in Health Sciences	45H		
Biochemistry	45H	Quality	45H
Biophysics	60H	Information Systems	60H
General Pathology	60H	Radiology Equipments	75H
Introduction to Social Sciences	30H	TC or RM	75H
Radiobiology	60H	Clinical Education II	180H
		Quality Control	45H
YEAR 2		Health Management and Economics	45H
		Clinical Education in TC or RM	
Radiological Anatomy I and II	120H	Research in Radiology	180H
Radiations Physics	75H	Integrated Imagiology in TC or RM	45H
Imagiology I and II	90H		30H
Radiological Procedures I and II	420H		
Healthcare	45H		
Protection Against Ionizing radiation (PSCRI)	45H		
Pharmacology/Therapeutic	45H		
Image Processing	60H		

ERASMUS COURSE PROGRAMME

The subject of the theoretical component, concerning Erasmus exchange, will be Women's Health.

The subject is divided in three areas:

- Senology
- Bone Densitometry
- Interventional Radiology

During the Academic Programme the students will have Portuguese Culture as well a Portuguese Language Course.

The lectures will take place at Superior School of Health Technology of Porto and in specialized centres in each area.

Areas	Unit Title	Credits	Assessment
Theoretical Part			
Senology	Equipment in Mamography	1	Assignment
	Radiological Position and Technological Procedures	2	Assignment
Bone Densitometry	Equipment in Bone Densitometry	1	Assignment
	Measurements Methods and Clinical Applications in BD	2	Assignment
Interventional Radiology	History of Angiography and equipment	1	Assignment
	Interventional Procedures	2	Assignment
Portuguese Language and Culture	Portuguese Language	1	Presentation
	Portuguese History and Culture	1	Presentation
Practical Part			
Clinical Studies		9	Write Essay

Credit summary:	Theoretical	11
	Practical	9
	TOTAL OF CREDITS:	20



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ERASMUS PROGRAMME 2008
Superior School of Health Technology of Porto
Degree Programme in Radiography
Porto, Portugal

PLANNING OF ERASMUS CURRICULUM PORTO – 2008

WEEK 1:

1. Introduction to:

- § Staff
- § Students
- § University and professional education
- § Erasmus curriculum
- § Portuguese language
- § Students presentations

WEEK 2:

Bone Densitometry:

- § Lectures and practical training
- § The clinical problem
- § Basic considerations and definitions in BD
- § Dual-energy: x-ray absorciometry
 - Radiological procedures
 - Quality assurance
 - Clinical interpretation
- § Clinical applications of BD

Senology

- § Lectures and practical training
- § Introduction and historical development
- § Equipment
- § Radiological positions and technological procedures
- § Interventional mammography
- § Mammography quality control

WEEK 3:

Interventional Radiology:

- § Lectures and practical training
- § History of Angiography
- § Equipment and image enhancement techniques
- § Procedural angiography
- § Interventional procedures
 - Vascular interventional procedures
 - Nonvascular interventional procedures

WEEK 4 to 10:

§ Clinical placements and school activities.

WEEK 11-12:

§ Assessment of the different areas of the curriculum in the school.

§ Evaluation of education programme Erasmus Porto.

Assessment:

The student must do a written report concerning Senology, Bone Densitometry and Interventional Radiology and present to the tutor. After the students must do a presentation.

SCHEDULE

Introduction

During the exchange the subject is divided in three areas:

- Senology;
- Bone Densitometry;
- Interventional Radiology;

The topics included theoretical practical and clinical studies in each area. The clinical placements are in central hospitals in the city.

The teaching method includes lectures, group work, demonstration, practical training and individual study.

Bone Densitometry:

- § Lectures and practical training
- § The clinical problem
- § Basic considerations and definitions in BD
- § Dual-energy: x-ray absorciometry
 - Radiological procedures
 - Quality assurance
 - Clinical interpretation
 - Clinical applications of BD

Senology

- § Lectures and practical training
- § Introduction and historical development
- § Equipment
- § Radiological positions and technological procedures
- § Interventional mammography
- § Mammography quality control

Interventional Radiology:

- § Lectures and practical training
- § History of Angiography
- § Equipment and image enhancement techniques
- § Procedural angiography
- § Interventional procedures
 - Vascular interventional procedures
 - Nonvascular interventional procedures