

25424 - Image Diagnosis Techniques

Información del Plan Docente

Academic Year	2017/18
Faculty / School	127 - Facultad de Ciencias de la Salud 275 - Escuela Universitaria de Enfermería de Huesca 375 - Escuela Universitaria de Enfermería de Teruel
Degree	559 - Degree in Nursing 280 - Degree in Nursing 561 - Degree in Nursing 273 - Degree in Nursing 281 - Degree in Nursing 560 - Degree in Nursing
ECTS	6.0
Year	---
Semester	Indeterminate
Subject Type	Optional
Module	---

1.General information

1.1.Introduction

1.2.Recommendations to take this course

1.3.Context and importance of this course in the degree

1.4.Activities and key dates

2.Learning goals

2.1.Learning goals

2.2.Importance of learning goals

3.Aims of the course and competences

3.1.Aims of the course

3.2.Competences

4.Assessment (1st and 2nd call)

4.1.Assessment tasks (description of tasks, marking system and assessment criteria)

5.Methodology, learning tasks, syllabus and resources

5.1.Methodological overview

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The learning process which is proposed for this subject is the next one:

MD 1 Lectures and participatory classes.

MD 4 Learning based on problems.

MD 5 Exemplification and cases study.

5.2.Learning tasks

Learning activities which are used in this subject, they include:

- Lectures: It's encouraged the participation of students.
- Practical sessions of solving problems and test diagnostic imaging clinical cases.
- Periodical tutorial tracking: Presential sessions through platforms of the ADD of Zaragoza's University.

5.3.Syllabus

Thematic Block 1: Imaging Diagnostic Introduction

Lesson 1. Concept and historical evolution of Imaging Diagnostic Techniques.

Lesson 2. Nursing activities in the Imaging Diagnostic Techniques.

Lesson 3. Patient radiation preparation.

Lesson 4. Radiodiagnosis Quality Control.

Thematic Block 2: Physical bases of Imaging Diagnostic

Lesson 5. The matter.

Lesson 6. The Electromagnetic Radiation.

Lesson 7. Ionizing Radiation.

Lesson 8. Concept and Rx Properties.

Lesson 9. Radiation Interactions with the Matter.

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Lesson 10. Biological Effects of the Radiation.

Lesson 11. The radiation Im>= Digital Imaging.

Thematic Block 3: Radiological Protection

Lesson 12. Radiological Protection Concept and Radiosensitivity.

Lesson 13. Radiological Protection Measures.

Lesson 14. Specific Protection Measures in Children and Pregnant Women.

Thematic Block 4: Contrast Agents use in the Imaging Diagnostic Techniques

Lesson 15. Contrast Agents.

Lesson 16. Ultrasound Contrast.

Lesson 17. Magnetic Resonance Contrast Agents.

Lesson 18. Nursing Care in the Administration of Contrast Agents.

Thematic Block 5: Nursing Care in the Imaging Diagnostic Techniques

Lesson 19. Conventional Radiology.

Lesson 20. Contrast Radiology.

Lesson 21. Interventional and Vascular Radiology.

Lesson 22. Ultrasound.

Lesson 23. Computed Tomography.

Lesson 24. Magnetic Resonance.

Lesson 25. Nuclear Medicine.

Seminars:

First Seminar. Care Plan in Patients with Ultrasound Study.

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Second Seminar. Care Plan in Patients with Tomography Computed.

Third Seminar. Care Plan in Patients with Magnetic Resonance.

Fourth Seminar. Care Plan in Patients with Nuclear Medicine.

Fifth Seminar. Utility of Ultrasound in canalization venous catheters.

Sixth Seminar. Radiological Protection Measures in patients and
professionals exposed to ionizing radiation

Seventh Seminar. Radiologic studies in U.C.I.

Eighth Seminar. Mamography. Utility of Breast Cancer.

5.4.Course planning and calendar

The calendar of this subjects activities proposed for the Course 2017-2018 is the following one:

- Theory Classes: September 2017 - January 2018.

- Seminars: October 2017 - January 2018.

5.5.Bibliography and recommended resources

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| BB | Ecografía básica : utilidad en la inserción de catéteres venosos centrales de acceso periférico. Directores, Enrique Tobajas Asensio, José Antonio Tobajas Asensio. Zaragoza, Enrique Tobajas Asensio, 2010. |
| BB | Fernández Solá, Cayetano: Enfermería radiológica. Almería, Universidad de Almería, 2007. |
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- BB** Moller, Torsten B., Reif, Emil: Imágenes
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- BB** Sartor, Klaus, Kress, Bodo: Diagnóstico
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