

## 25436 - Clinical Nursing I

### Información del Plan Docente

Academic Year	2018/19
Subject	25436 - Clinical Nursing I
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 561 - Degree in Nursing 560 - Degree in Nursing
ECTS	7.0
Year	2
Semester	Annual
Subject Type	Compulsory
Module	---

### **1.General information**

#### **1.1.Aims of the course**

#### **1.2.Context and importance of this course in the degree**

#### **1.3.Recommendations to take this course**

### **2.Learning goals**

#### **2.1.Competences**

#### **2.2.Learning goals**

#### **2.3.Importance of learning goals**

### **3.Assessment (1st and 2nd call)**

#### **3.1.Assessment tasks (description of tasks, marking system and assessment criteria)**

### **4.Methodology, learning tasks, syllabus and resources**

#### **4.1.Methodological overview**

MD1 Expositive and participative classes

MD4 Problem Based Learning

MD5 Exemplification and case study

MD8 Job Review

MD11 Preparation of papers and oral presentation.

#### **4.2.Learning tasks**

## 25436 - Clinical Nursing I

The objective of these activities in the field of Clinical Nursing is to develop a comprehensive nursing process for adults who are or are at risk of suffering from a health disorder and the methodology of teaching and learning used aims to convert to Student in active subject and responsible for their own learning.

The activities carried out are the collaborative expository classes carried out by the teachers and by the students, which are offered on a voluntary basis. With this activity the student is expected to develop the ability to elaborate a topic and demonstrate the capacity for synthesis, organization, comprehension, writing and exposition.

The work in small groups of problem solving and clinical cases, through which, the student will apply the theoretical knowledge exposed in the lectures for better integration.

Laboratory practices in small groups, for the learning of technical skills and the development of collaborative capacities among the students, which allows continuous evaluation by the teacher.

Group work with the objectives of:

To deepen in a specific health problem (considered important for the nurses) through the bibliographical revision.

Develop this method of research, teamwork and autonomy and the ability to synthesize and oral transmission, through the presentation of results.

Follow-up Regular tutorial of group work and exercises and individual questionnaires in the virtual campus for self-learning, led by teachers.

Students are provided with session material along with links of interest and bibliography of manuals and articles, to facilitate the student's autonomous work on the Moodle platform.

### 4.3.Syllabus

MODULE 1: General: Pathophysiology and health patterns

Unit 1. Concept of Clinical Nursing

Unit 2. Hydroelectrolytic equilibrium. Distribution of fluids and electrolytes in the body. Revenues and losses. Alterations of water and electrolyte balance. Hydric balance. Treatment with parenteral liquids.

Unit 3. Pathophysiology of acid-base disorders. Identification and classification of disorders of acid-base balance. Clinic and nursing care.

Unit 4. Nursing care for the patient with hemorrhagic syndrome. Concept of bleeding. Classification. Etiology. Clinic. Methods of hemostasis. Treatment and care.

Unit 5. Inflammation. Concept. Pathophysiology and classification. Clinic. Treatment of local inflammation. Nursing care.

Unit 6. Infection. Concept. Pathogenic organisms. Epidemiological chain. Mechanisms of defense of the organism.

Mechanisms of diffusion in the organism. Clinic. Manifestations of the local infection (phlegmon, abscess). Nosocomial infections: concept, measures of prevention of the transmission of infection. Nursing process to the patient with infection.

Septicemia. Concept. Etiology. Pathophysiology. Clinic. Diagnosis. Complications: State of sepsis; Concept, early diagnosis. Nursing process to the septicemic patient. Hemoculture technique.

Unit 7. Pain. Physiology of pain. Assessment and treatment of pain. Nursing process to the patient with pain.

Unit 8. Patient in shock. Concept. Types of shock. Pathophysiology. Clinical evolution. Diagnosis. Treatment. Nursing process to the patient in shock.

Unit 9. Oncology: Concept of cancer and metastasis. Etiopathogeny. Tumor biology. Clinic: General Syndrome. Signs of early detection. Classification of tumors. Treatments. Nursing care for cancer patients.

MODULE 2: Nursing care for the surgical patient

Unit 10. Perioperative nursing.

Concept of surgery. Classification of types of surgery. Informed consent.

Nursing care in the preoperative period

Unit 11. Nursing process: Initial assessment, nursing diagnoses (more frequent preoperative), planning results, nursing interventions, evaluation of results. Preoperative teaching. Nursing interventions in the immediate preoperative period.

Transfer of the patient to the operating room.

Intraoperative nursing care

Unit 12. Surgical department: location and description. Concept of sterilization, disinfection. Functions of the surgical team.

Unit 13. Basis of surgical lavage. Placement of surgical clothing. Preparation of the instrument table. Basic surgical instruments.

Unit 14. Sutures. Concept of ligature and suture. Choice of suture material. Types of needles. Types of suture threads.

Unit 15. Anesthesia. Concept and types of anesthesia. Techniques of administration of anesthesia. Basic monitoring in anesthesia. Nursing care during anesthesia. Potential anesthetic complications.

Unit 16. Special Procedures in Surgery: Extracorporeal Circulation. Induced hypothermia. Controlled hypotension.

## 25436 - Clinical Nursing I

Surgical Techniques (Laparoscopic surgery, robotics, laser ...)

Nursing care in the postoperative period

Unit 17. Postoperative care unit. Admission and nursing care in the immediate postoperative period.

Unit 18. Nursing process for the hospitalized postoperative patient: Admission in the hospitalization area and care in the first hours after the intervention. Main nursing diagnoses related to postoperative surgery Postoperative follow-up until discharge.

Unit 19. Care of the surgical wound. Types of drainage. Removal of sutures.

Nursing Care in Wound Care

Unit 20. Nursing care in bruises and wounds.

Unit 21. Pressure injuries. Concept and etiopathogenesis, risk factors, most frequent locations, classification, nursing diagnoses, prevention, treatments and Nursing process.

Contents of SEMINARS (problem solving and cases, laboratory practices)

1. WATER BALANCE:

2. NURSING PROCESS FOR THE PATIENT WITH HYDROELECTROLYTIC IMBALANCE

3. INTRAVENOUS THERAPY: SOLUTIONS I.V

4. HEMODYNAMIC MONITORING, CENTRAL VENOUS CATHETERS AND SUBCUTANEOUS RESERVOIRS

(implantable systems

5. NURSING PROCESS FOR THE SURGICAL PATIENT IN THE PREOPERATIVE AND POSTOPERATIVE (CASE)

6. WOUND CARE AND SUTURE

7. Exemplification, case studies and nursing care of different health problems related to the agenda (to be determined).

8. ABP: Resolution of a case of a health problem, in which the student has to plan the care integrating the knowledge of the subjects of second course.

### 4.4.Course planning and calendar

The course begin in September on the official date.

Distribution of the course in two groups

Group 1

September November

Lectures and seminars in small groups (4 subgroups).

December:

Optional exam

February March

Lectures and seminars in small groups

Group work (6 subgroups), tutorials and exhibition.

Group 2

November to January

Lectures and seminars in small groups (4 subgroups)

February

Optional exam

April May

Lectures and seminars in small groups

Group work (6 subgroups), tutorials and exhibition.

June

Both groups exam in the official announcement.

### 4.5.Bibliography and recommended resources