



UNIVERSITY OF L'AQUILA



Department of Health, Life and  
Environmental Sciences

## 1<sup>st</sup> Cycle Degree in NURSING *Laurea in INFERMIERISTICA*

### Course Catalogue

Academic year starts the last week of September and ends the first week of June.

**1<sup>st</sup> Semester** - *Starting date:* last week of September, *end date:* 3<sup>rd</sup> week of January

**2<sup>nd</sup> Semester** - *Starting date:* last week of February, *end date:* 1<sup>st</sup> week of June

**Exams Sessions:** I) from last week of January to 3<sup>rd</sup> week of February, II) from 2<sup>nd</sup> week of June to end of July, III) from 1<sup>st</sup> to 3<sup>rd</sup> week of September.

<b>Comprehensive Scheme of the First Cycle Degree in NURSING</b>				
<b>YEAR</b>	<b>CODE</b>	<b>COURSE</b>	<b>Credits (ECTS)</b>	<b>Semester</b>
<b>I</b>	D3798	Human Anatomy and Histology	5	1
	D0002	Genetics and Biochemistry	6	1
	D1324	Nursing Process Methodology	8	1
	D3801	Physiology, General Pathology and Clinical Microbiology	8	2
	D4113	Clinical Nursing Methodology and Pharmacology	10	2
	D3638	<i>Work Placement I</i>	16	1 and 2
<b>II</b>	D4114	Care and Treatment in General and Specialist Medicine	8	1
	D4116	Care and Treatment in General and Specialist Surgery	8	1
	D4118	Hygiene, Safety and Professional Organization	10	2
	D3804	Care And Treatment of the frail and disabled Patient	9	2
	D3640	<i>Work Placement II</i>	20	1 and 2
<b>III</b>	D0134	Care and Treatment in Maternal and Child Area	6	1
	D0144	Nursing in Maternal and Child Area and Developmental Psychology	6	1
	D0160	Care and Treatment in Intensive Care Units	9	2
	D4120	Research Methodology	3	2
	D3642	<i>Work Placement III</i>	24	1 and 2
		<i>Free choice Courses / Activities</i>	18	1,2
		<i>Thesis</i>	6	2

**Programme of “ANATOMIA E ISTOLOGIA”  
“ANATOMY AND HISTOLOGY”**

**This course is composed of two modules: 1) Human anatomy 2) Histology**

**D3798, COMPULSORY**

**First Cycle Degree in NURSING, 1<sup>st</sup> Year, 1<sup>st</sup> Semester**

**Number of ECTS credits: 5 (workload is 150 hours; 1 credit = 25 hours)**

**1) HUMAN ANATOMY (3 ECTS)**

Teacher: Guido MACCHIARELLI

1	Course objectives	Knowledge of the general and structural organization of the normal human body from the microscopic to the macroscopic level. Understanding the main morpho-functional relationships and the basic clinical anatomy aspects of the human organism. Knowing how to define the various anatomical and histological structures. Recognize the shape and structure of organs and identify their location in the regions of the body.
2	Course content and Learning outcomes (Dublin descriptors)	<p><b>Human Anatomy Unit – Contents:</b></p> <p>1) Terminology; classification of Apparatus/Systems; Organs, Tissues and Membranes                  2) Regions and Cavities of the Human Body                  3) Macroscopic and Microscopic Anatomy of Human Body Systems and Apparatuses: Locomotor, Circulatory (cardiovascular, lymphatic and hematopoietic), Respiratory, Digestive, Urinary, Genital, Endocrine, Teguments, Special Senses; Nervous System.</p> <p>On successful completion of this module the student should</p> <ul style="list-style-type: none"> <li>- have general <b>knowledge</b> the human body morphology</li> <li>- have <b>knowledge and understanding</b> of human anatomy in order to organize a discussion on morphological aspects in a comprehensive manner;</li> <li>- <b>be able to explain</b> the practical problems of human body using appropriate scientific language;</li> <li>- <b>be able to apply</b> the acquired knowledge to concrete cases as occurring in the professional life;</li> <li>- <b>demonstrate skill</b> to evaluate independently and motivate any different opinions about the problematic aspects of human body anatomy.</li> <li>- <b>demonstrate capacity</b> for reading and understand other texts on morphologic related topics.</li> </ul>
3	Prerequisites and learning activities	The student must know the basic notion of cellular biology and histology.
4	Teaching methods and language	Lectures, seminars, lab Language: Italian, English Ref. Text books Montagnani, Tazzi: <i>“Anatomia Umana Normale”</i> , Ed.: Idelson-Gnocchi (2014)
5	Assessment methods and criteria	Written and oral exam.

**2) HISTOLOGY ( 2 ECTS)**

Teacher: Paola DE CESARIS

1	Course objectives	The Histology course provides an overview of human tissues. The goal of the course is to enable the student to acquire a knowledge of the fundamentals of human histology and to understand the cellular interactions with one another as components of tissues.
2	Course content and Learning outcomes (Dublin descriptors)	<p><b>Topics of the human Histology modules include:</b></p> <ul style="list-style-type: none"> <li>• Basic cell biology;</li> <li>• Histology of the different human tissues i.e. epithelial, glands, connective tissue (cartilage, bone and blood), muscle and nervous tissues.</li> </ul> <p>Emphasis is placed on tissues of female reproductive system and on the development and structure of placenta.</p> <p>Students are expected to:</p> <ul style="list-style-type: none"> <li>• Have acquired <b>knowledge</b> on cell structure and tissues organizations,</li> <li>• Be <b>able to recognize</b> the different tissues,</li> </ul>

		<ul style="list-style-type: none"> <li>• Be <b>able to distinguish</b> between the components of cells and tissues from all organ systems <b>and explain</b> their functions,</li> <li>• Be <b>able to describe</b> the normal structure and function of various cell types and tissues of female reproductive system;</li> <li>• Demonstrate <b>capacity</b> to read and understand scientific texts.</li> </ul>
3	Prerequisites and learning activities	The student must know the basic notion of chemistry, biochemistry and cell biology as acquired in the high schools.
4	Teaching methods and language	Lectures Language: Italian Ref. Text books Adamo et al. " <i>ISTOLOGIA</i> " (PICCIN 2008)
5	Assessment methods and criteria	Written exam: multiple choice test regarding cell biology and histology topics

<b>Programme of "GENETICA E BIOCHIMICA"</b> <b>"GENETICS AND CLINICAL BIOCHEMISTRY"</b> <b>This course is composed of two modules: 1) Medical Genetics, 2) Clinical Biochemistry</b>		
D0002, compulsory		
First Cycle Degree in NURSING, 1 <sup>st</sup> Year, 1 <sup>st</sup> Semester		
Number of ECTS credits: 6 (workload is 180 hours; 1 credit = 30 hours)		
<b>1) MEDICAL GENETICS (3 ECTS)</b>		
Teacher: Claudio LIGAS		
1	Course objectives	The goal of this course is provide the fundamentals for understand the laws of heredity to identify the mode of transmission of characters and assess the likelihood of their occurrence in the offspring, knowing the human karyotype and its modifications, understanding the mechanisms of emergence of genetic mutations and their effects on gene expression.
2	Course content and Learning outcomes (Dublin descriptors)	<p>Topics of the module include: Chromosome theory of heredity. Mitosis and meiosis. Prokaryotes and eukaryotes. Human chromosomes. Transmission of hereditary characteristics. Concept of dominance, co-dominance and recessive, gene locus, gene, allele, homologous chromosomes, omozigotia, eterozigotia, emizigotia, genotype and phenotype. Genes. Somatic mutations, germ, chromosomal and genetic causes. Genetics of cancer</p> <p>On successful completion of this module, the student should</p> <ul style="list-style-type: none"> <li>• <b>Acquiring knowledge and understanding</b> the fundamentals of heredity and its rules.</li> <li>• <b>Applying knowledge and understanding</b> the mechanisms of emergence of genetic mutations.</li> <li>• <b>Making informed judgments and choices = skills.</b> The student will be able to assess the possibility of inheriting a disease and advise the patient to consult the specialist for tests.</li> <li>• <b>Communicating knowledge and understanding.</b> The student will be able to explain to the patients and to other professionals the laws of heredity.</li> <li>• <b>Capacities to continue learning.</b> The student will be able to assess the own knowledge needs and then to guide own future learning in these topics.</li> </ul>
3	Prerequisites and learning activities	The student must have the basis of basic sciences.
4	Teaching methods and language	Lectures, team work, exercises, home work. Language: Italian Ref. Text books : Chieffi G. et al " <i>BIOLOGIA E GENETICA</i> " (EDISES 2005) Solomon E. et al " <i>ELEMENTI DI BIOLOGIA</i> " (EDISES 2012)
5	Assessment methods and criteria	Written and oral exam, short report.
<b>2) CLINICAL BIOCHEMISTRY (3 ECTS)</b>		
Teacher: Giuseppe CELENZA		

1	Course objectives	This course applies biochemical and molecular principles to select, evaluate and interpret tests used for the diagnosis and monitoring of diseases in humans. Fundamentals of biochemistry will be introduced, as well, before to discuss the diagnostic value of the markers. The student should be able to identify any significant alteration of the most common biochemical markers and to correlate them to diseases.
2	Course content and Learning outcomes (Dublin descriptors)	<p><b>Introduction to Laboratory Medicine.</b> The role of Clinical Biochemistry and Clinical Molecular Biology. Basic Principles of clinical chemistry, quality control, reference intervals, diagnostic efficacy and data interpretation.</p> <p><b>Hydroelectrolytic balance.</b> Water and electrolytes, extracellular fluid. Oncotic and osmotic pressure of blood.</p> <p><b>Blood gases, pH and Buffer system.</b> Acid, bases and buffer definitions, acid-base balance, assessment of acid-base homeostasis.</p> <p><b>Renal Function.</b> Fundamentals of renal anatomy and physiology, hormonal regulation and renal function evaluation. Clearance, tubular function evaluation. Fundamentals of pathophysiology.</p> <p><b>Lipids and lipoproteins.</b> Lipid chemistry, lipoprotein physiology and metabolism. Atherogenesis, diseases prevention and diagnosis.</p> <p><b>Plasma proteins and enzymes.</b> Aminoacids and proteins structure. Electroforetic profile and interpretation. Function of plasma proteins and diagnostic significance. Clinical enzymology in cardiac and liver function.</p> <p><b>Carbohydrates.</b> General description of carbohydrates, hormonal control of glycemia, hyperglycemia and hypoglycemia. Differential diagnosis and monitoring of diabetic disease.</p> <p>On successful completion of this module, the student should</p> <ul style="list-style-type: none"> <li>- <b>have basic knowledge</b> of biochemical processes and their alteration in diseases</li> <li>- <b>have knowledge and understanding</b> the role of pathogenic markers in differential diagnosis</li> <li>- <b>demonstrate capacity</b> for reading and <b>understand</b> other texts on related topics.</li> </ul>
3	Prerequisites and learning activities	Fundamentals in chemistry
4	Teaching methods and language	Lectures. Language: Italian Ref. Text books. "Medicina di laboratorio", Federici et al. (MCGROW-HILL 2014).
5	Assessment methods and criteria	Written and oral exam

<b>Programme of "METODOLOGIA DEL PROCESSO DI NURSING"</b> <b>"NURSING PROCESS METHODOLOGY"</b>		
<b>The course is composed of three Modules: 1) General Nursing, 2) General Psychology, 3) Radiation Protection, D1324, COMPULSORY</b>		
<b>First Cycle Degree in NURSING, 1<sup>st</sup> Year, 1<sup>st</sup> Semester</b>		
<b>Number of ECTS credits: 8 (workload is 240 hours; 1 credit = 30 hours)</b>		
<b>1) GENERAL NURSING (3 ECTS)</b>		
<b>Teacher: Cristina PETRUCCI</b>		
1	Course objectives	The goal of this course is to provide the fundamentals of Nursing, through the study in depth of the concept of health, of the nursing theories and the nursing process.
2	Course content and Learning outcomes (Dublin descriptors)	<p><b>Topics of the module include:</b> History and evolution of nursing. Health concept. Nursing paradigm. Nursing theories. Nursing Process.</p> <p>On successful completion of this module, the student should</p> <ul style="list-style-type: none"> <li>• Have acquired <b>knowledge and understanding</b> of the role of the nurse practicing within legal, ethical and professional frameworks.</li> <li>• Be able to <b>apply</b> knowledge and understanding in the planning of nursing care.</li> <li>• Demonstrate an <b>ability to relate</b> observed practice to its underlying theory and <b>describe</b> how certain aspects of nursing/patient care are carried out.</li> <li>• be <b>able to implement</b> nursing care planning starting from the patient assessment</li> </ul>

		<p>and <b>practice</b> within the scope of student nurse role with reference to national and local guidelines.</p> <ul style="list-style-type: none"> <li>• be able to <b>describe</b> the concept of patient-centred care, which represents the patient's preferences, values and needs within the context of their families, communities and the health care delivery system.</li> <li>• be able to <b>assess</b> the own knowledge needs and then <b>identify</b> sources and types of information required to enhance further application of knowledge to the practice .</li> </ul>
<b>3</b>	<b>Prerequisites and learning activities</b>	The student must have the basis of human sciences.
<b>4</b>	<b>Teaching methods and language</b>	<p>Lectures, team work, exercises, home work.          Language: Italian  <b>Ref. Text books :</b>          R.F. Craven. <i>PRINCIPI FONDAMENTALI DELL'ASSISTENZA INFERMIERISTICA</i>. Casa Editrice Ambrosiana. Quinta edizione. 2013;          NANDA – I. <i>DIAGNOSI INFERMIERISTICHE – DEFINIZIONI E CLASSIFICAZIONE</i> 2012-14. Casa Editrice Ambrosiana</p>
<b>5</b>	<b>Assessment methods and criteria</b>	Written and oral exam, short report.

## **2) GENERAL PSYCHOLOGY (4 ECTS)**

Teacher: to be hired

<b>1</b>	<b>Course objectives</b>	The goal of this course is to provide the fundamentals of Psychology, so that students acquire relational skills.
<b>2</b>	<b>Course content and Learning outcomes (Dublin descriptors)</b>	<p><b>Topics of the module include:</b>          Psychology as a science, methods of study, Mind and Brain, Brain areas, Personality, the Cognitive Capacity.</p> <ul style="list-style-type: none"> <li>▪ Access principles and principal proponents of psychological theories using accepted methods of scientific inquiry.</li> <li>▪ Demonstrate an understanding of the biological basis of behavior including physiology of the brain and nervous system and the accompanying sensory systems and perceptual process.</li> <li>▪ Explain learning theories and cognitive processes.</li> <li>▪ Describe theories and applications of motivation and emotion.</li> <li>▪ Demonstrate an understanding of human life span development and discriminate among its major domains.</li> <li>▪ Identify and describe the major theories of personality, detailing the major disorders, their treatments and/or therapy.</li> <li>▪ Specify how the individual, a group, and the environment influence social interaction.</li> </ul> <p>On successful completion of this module, the student should</p> <ul style="list-style-type: none"> <li>• Acquire <b>knowledge and understanding</b> of the fundamentals of General Psychology: principles and principal proponents of psychological theories using accepted methods of scientific inquiry.</li> <li>▪ Demonstrate an <b>understanding</b> of the biological basis of behavior including physiology of the brain and nervous system and the accompanying sensory systems and perceptual process.</li> <li>• <b>Apply</b> knowledge and understanding in the comprehension of patients mental world.</li> <li>• be <b>able to identify and describe</b> the major theories of personality, detailing the major disorders and their treatments and/or therapy and <b>implement</b> strategies for the mental health of patients.</li> <li>▪ <b>Explain</b> learning theories and cognitive processes and <b>describe</b> theories and applications of motivation and emotion.</li> <li>• <b>be able to explain</b> to the patients and to other professionals strategies for the mental health of patients and specify how the individual, a group, and the</li> </ul>

		<p>environment influence social interaction.</p> <ul style="list-style-type: none"> <li>• be able to <b>assess</b> the own knowledge needs and then to guide own future learning in these topics.</li> </ul>
<b>3</b>	<b>Prerequisites and learning activities</b>	The student must have the basis of human sciences.
<b>4</b>	<b>Teaching methods and language</b>	Lectures, team work. Language: Italian <b>Ref. Text books:</b> C Cacciari, C Papagno: <i>"Psicologia Generale e Neuroscienze Cognitive"</i> , Il Mulino editore 2006.
<b>5</b>	<b>Assessment methods and criteria</b>	Written and oral exam, short report.
<b>3) RADIOPROTECTION TECHNIQUE (1 ECTS)</b>		
Teacher: Ernesto DI CESARE		
<b>1</b>	<b>Course objectives</b>	Course objectives are to give information about radiation risk and learn information about protection methods by means focused lessons on physics principles of radiations, Italian legislation, different methods of protection.
<b>2</b>	<b>Course content and Learning outcomes (Dublin descriptors)</b>	<p><b>Topics of the module include:</b> Radiation Physics Radiobiology Measurements in Radioprotection Sanitary Effects Population Ionizing Radiation Exposition Radiation Source in the Radiological Department Radioprotection principles and low General principles of radioprotection in the radiological activities</p> <p>On successful completion of this module, the student should</p> <ul style="list-style-type: none"> <li>- have profound <b>knowledge</b> of Radioprotection</li> <li>- have <b>knowledge and understanding</b> of radiation risk related</li> <li>- demonstrate <b>skill</b> in Radioprotection and <b>ability</b> to protect himself and patients from radiation</li> <li>- demonstrate <b>capacity</b> for reading and understand other texts on related topics.</li> </ul>
<b>3</b>	<b>Prerequisites and learning activities</b>	Not previous specific knowledge is required
<b>4</b>	<b>Teaching methods and language</b>	Teaching methods Lectures Language: Italian/English <b>Ref. Text books</b> E. di Cesare, P Gallicchi, M Midiri <i>"La Radioprotezione Negli Studi Radiologici"</i> , ed Gnocchi, 2010
<b>5</b>	<b>Assessment methods and criteria</b>	Written and oral exam

<b>Programme of "FISIOLOGIA, PATOLOGIA GENERALE E MICROBIOLOGIA CLINICA"</b> <b>"PHYSIOLOGY, PATHOLOGY AND CLINICAL MICROBIOLOGY"</b>		
This course is composed of three modules: 1) Human Physiology, 2) General Pathology, 3) Clinical Microbiology		
<b>D3801, compulsory</b>		
<b>First cycle Degree in NURSING, 1<sup>st</sup> year, 2<sup>nd</sup> semester</b>		
<b>Number of ECTS credits: 8 (workload is 270 hours; 1 credit = 30 hours)</b>		
<b>1) HUMAN PHYSIOLOGY (3 ECTS)</b>		
Teacher: <b>Silvia DI LORETO</b>		
<b>1</b>	<b>Course objectives</b>	The goal of this course is to provide the student with the fundamentals on the human body functions. On successful completion of this module, the student should understand the functioning of the major physiological organ systems: cardiovascular, respiratory, renal, neural and gastrointestinal; as well as basic concepts of general physiology

2	Course content and Learning outcomes (Dublin descriptors)	<p>Topics of the module include:</p> <p><b>Introduction and General Physiology:</b> Levels of organization of tissue, organs and organ systems of the body. Function and regulation of the human body fluids, composition of body fluids, membrane transports. Omeostasis and physiological integration of the organ systems to maintain homeostasis</p> <p><b>Cellular Neurophysiology:</b> The fundamental mechanisms of action potential propagation, synaptic transmission, and receptor potential generation</p> <p><b>Nervous System, Sensory Physiology and Efferent Nervous System:</b> The Nervous System organization. The general properties of sensory systems. The somatic senses. The macro and microscopic structure of muscle. The events involved with muscle contraction and relaxation in response to an action potential. The three levels of nervous control of the body movement: the spinal cord, the brain stem, the cerebral cortex level.</p> <p><b>Cardiovascular Physiology:</b> The cardiac performance, and the cellular, ultrastructural and molecular bases of normal cardiac function and myocardial blood flow. Different regional circulations. Neuronal, humoral and local mechanisms of regulation of organ blood flow. Mechanisms of regulation of vascular smooth muscle contractility. Influence of the endothelium on vascular tone and reactivity on local blood flow regulation.</p> <p><b>Renal Physiology:</b> Control of the volume and composition of body fluids attributed to kidney functions. Control of glomerular filtration; nephron function; transport of fluid, electrolytes and organic molecules; endocrine regulation of the kidney.</p> <p><b>Respiratory Physiology:</b> Functioning of the pulmonary system in physiological conditions through the understanding of the gas laws within the body. The process of ventilation and gas exchange in the lungs. Volumes and pulmonary capacities. Gases transportation. Ventilation and its control.</p> <p>On successful completion of this module, the student should:</p> <ul style="list-style-type: none"> <li>○ have <b>knowledge</b> of the essential concepts of physiology and mechanisms of body function at various levels of organization, ranging from cellular and molecular to tissue and organ system levels.</li> <li>○ <b>understand</b> the integrated regulation of various body processes among the body organ,</li> <li>○ <b>understand</b> the means by which the various organ systems of the human body operate and how these functions are integrated</li> <li>○ <b>demonstrate skill</b> in analysing the effects of environmental variability of the organ systems of the human body,</li> <li>○ <b>demonstrate capacity</b> to apply the compiled information to clinical or research situations.</li> </ul>
3	Prerequisites and learning activities	The student must have the basic physical notions as acquired in the secondary Schools
4	Teaching methods and language	<p>Lectures.</p> <p>Language: Italian</p> <p>Ref. Text books:</p> <ul style="list-style-type: none"> <li>- L. Zocchi "<i>Principi di Fisiologia</i>", Edises. 2012.</li> <li>- Stanfield, Germann "<i>Fisiologia</i>", Edises. 2011.</li> <li>- M. Midrio "<i>Compendio di Fisiologia Umana</i>", Piccin. 2012</li> </ul>
5	Assessment methods and criteria	Written exam.
<b>2) GENERAL PATHOLOGY (3 ECTS)</b>		
Teacher: <b>Maria Grazia CIFONE</b>		
1	Course objectives	The goal of this course is to provide the student with the tools and knowledge needed to understand, describe and recognize the causes and determinants of the pathogenic mechanisms of patients diseases.
2	Course content and Learning outcomes (Dublin descriptors)	<p><b>Topics of the module include:</b></p> <p>Cell damage and death, inflammation, fever, atherosclerosis, ischemic heart disease, hepatitis, hepatic cirrhosis, genetic disease, multisystem diseases, cellular transformation and tumor progression.</p> <p>On successful completion of this module, the student should:</p> <ul style="list-style-type: none"> <li>○ <b>know and understand</b> the concept of "cause" in pathology.</li> <li>○ <b>Apply knowledge and understanding</b> in the description of the main patterns of</li> </ul>

		<p>pathological cellular processes common to many types of diseases.</p> <ul style="list-style-type: none"> <li>○ <b>be able to recognize</b> the main patterns of pathological cellular processes common to many types of diseases.</li> <li>○ <b>be able to illustrate</b> the mechanisms of interaction between external agents and the living organism to patients and other health care professionals.</li> <li>○ <b>demonstrate capacities to continue learning</b> by assessing his/her own knowledge needs and then to guide own future learning in these topics.</li> </ul>
3	Prerequisites and learning activities	The student must have the knowledge of the fundamentals of cell biology, biochemistry, genetics, anatomy and histology.
4	Teaching methods and language	Lectures, team work. Language: Italian. Ref. Text books: G.M. Pontieri " <i>Elementi di Patologia Generale</i> " (per i Corsi di Laurea Professioni Sanitarie). Piccin ed. 2011.
5	Assessment methods and criteria	Written exam.

### **3) MICROBIOLOGY AND CLINICAL MICROBIOLOGY (2 ECTS)**

Teacher: **Patrizia FRASCARIA**

1	Course objectives	The goal of this course is to provide the fundamentals on the relationships between humans and microorganisms.
2	Course content and Learning outcomes (Dublin descriptors)	<p><b>Topics of the module include:</b> Microorganisms control methods: disinfection, sterilization; Antibacterial substances and bacterial cell structure; Physiology and genetics of bacteria; Bacterial growth; Virulence factors; Mechanism of action; Resistance to antibacterial agents; The main pathogenic bacteria; Immune serum and vaccines; Virus structure and their classification; The Bacteriophage; Cultivation of viruses; The main viruses pathogenic to humans; Vaccines and serums; The main fungal diseases in humans; Infections of the equipment and textiles; Methods of microbiological sampling.</p> <p>On successful completion of this module, the students should</p> <ul style="list-style-type: none"> <li>○ <b>Acquire knowledge and understanding</b> of the fundamentals of Microbiology.</li> <li>○ <b>Apply knowledge and understanding</b> in describing and identifying the route of entry and development of microorganisms in the host.</li> <li>○ be able to <b>implement general rules and procedures</b> in prevention and protection measures for patients and healthcare workers.</li> <li>○ be able to <b>explain</b> to the patients and to other professionals strategies for prevention and protection against infection.</li> <li>○ be able to <b>assess</b> their own knowledge needs and then to <b>continue learning</b> through critical reading of literature in these topics.</li> </ul>
3	Prerequisites and learning activities	The student must have basic knowledge in cell biology and biochemistry.
4	Teaching methods and language	Lectures. Language: Italian. Ref. Text books: T. Elliott, Worthington, H. Osman, M. Gill " <i>Microbiologia Medica ed Infezioni</i> ", Edizione Italiana: E.M.S.I. 2008.
5	Assessment methods and criteria	Written and oral exam, short report.

#### **Programme of "METODOLOGIA INFERMIERISTICA CLINICA E FARMACOLOGIA" "CLINICAL NURSING METHODOLOGY AND PHARMACOLOGY"**

**This course is composed of three modules: 1) Clinical Nursing, 2) Drugs Administration, 3) Pharmacology**

**D4113, COMPULSORY**

**First Cycle Degree in NURSING, 1<sup>st</sup> Year, 2<sup>nd</sup> Semester**

**Number of ECTS credits: 10 (workload is 300 hours; 1 credit = 30 hours)**

#### **1) CLINICAL NURSING (4 ECTS)**

Teacher: <b>Loreto LANCIA</b>		
1	Course objectives	The goal of this course is to provide the Fundamentals of nursing clinical assessment.
2	Course content and Learning outcomes (Dublin descriptors)	<p><b>Topics of the module include:</b> Nursing clinical assessment and nursing care in order to: skyn, respiratory, cardiovascular, gastrointestinal, musculoskeletal, neurological and urogenital functions.</p> <p>On successful completion of this module, the student should:</p> <ul style="list-style-type: none"> <li>○ <b>Acquire knowledge and understanding</b> of the fundamentals of Nursing Clinical Assessment.</li> <li>○ <b>Apply knowledge and understanding</b> in the patients assessment by objective exam and interview.</li> <li>○ be able <b>to perform</b> patient assessment and <b>to identify</b> the health needs of patient.</li> <li>○ be able <b>to explain</b> to the patients and to other professionals the goal of nursing clinical assessment.</li> <li>○ be able <b>to assess</b> the own knowledge needs and then <b>identify</b> sources and types of information required to enhance further application of knowledge to the practice</li> </ul>
3	Prerequisites and learning activities	The student must have the basis of natural and human sciences.
4	Teaching methods and language	Lectures, team work, exercises, home work. Language: Italian <b>Ref. Text books :</b> R.F. Craven. <i>PRINCIPI FONDAMENTALI DELL'ASSISTENZA INFERMIERISTICA</i> . Casa Editrice Ambrosiana. Quinta edizione. 2013; AA. VV. <i>Accertamento clinico - Guida metodologica illustrata per i professionisti della salute</i> . 2013.
5	Assessment methods and criteria	Written and oral exam, short report.

## **2) DRUGS ADMINISTRATION (3 ECTS)**

Teacher: <b>Massimiliano FRATTALI</b>		
1	Course objectives	The goal of this course is to provide the fundamentals of administration and storage of drugs. The student will learn the basic principles for the correct monitoring of the patient while administering the medication, for appropriate intervention as necessary, for the evaluation of the outcome of the medication on the patients health status and the correct documentation process.
2	Course content and Learning outcomes (Dublin descriptors)	<p><b>Topics of the module include:</b> Storage and Administration of drugs: clinical, medical/legal and ethical aspects of nursing interest. Safe use of drugs. Oral and parenteral administration of drugs: technical and scientific fundamentals.</p> <p>On successful completion of this module, the students should:</p> <ul style="list-style-type: none"> <li>○ have the <b>knowledge</b> (indications, contraindications, dose, interactions, adverse effects, route and knowledge of how to administer drug safely) of the administration process;</li> <li>○ have <b>skill to assess</b> the appropriateness of the medication for a particular patient and <b>capacities to monitor</b> the patients while administering the medication paying attention to their safety;</li> <li>○ be able <b>to implement</b> strategies for safety drugs administration and storage.</li> <li>○ be able <b>to explain</b> to the patients and to other professionals the right way for the drugs administration and storage.</li> <li>○ have <b>capacities</b> to assess their own knowledge needs and read and understand the literature on the field for a <b>continuous learning</b>.</li> </ul>
3	Prerequisites and learning activities	The student must have the basis of natural sciences.
4	Teaching methods and language	Lectures, team work, exercises, home work. Language: Italian <b>Ref. Text books:</b> R.F. Craven. <i>PRINCIPI FONDAMENTALI DELL'ASSISTENZA INFERMIERISTICA</i> . Casa Editrice Ambrosiana. Quinta edizione. 2013.

5	Assessment methods and criteria	Written and oral exam, short report.
<b>3) PHARMACOLOGY (3 ECTS)</b>		
Teacher: <b>Maria Francesca COPPOLINO</b>		
1	Course objectives and learning outcomes	The goal of this course is to provide students with a comprehensive introduction to the fundamental pharmacologic principles that govern the action of all drugs on the body. This is followed by a detailed, systematic consideration of major drugs used in specific clinical situations. On successful completion of this module, the student should understand the molecular mechanisms of drug action (pharmacodynamics); mechanisms of absorption, distribution, metabolism and excretion of drugs (pharmacokinetics) and the clinical use of drugs in the diagnosis, prevention, and treatment of disease (pharmacotherapy).
2	Course content and Dublin descriptors	<b>Topics of the module include:</b> Pharmacokinetics. Pharmacodynamics. Autonomic pharmacology. Drugs acting on the central nervous system. Cardiovascular and renal pharmacology. Endocrine pharmacology. Gastrointestinal pharmacology. Drug therapy of inflammation. Drugs used in disorders of coagulation. Antidiabetic drugs. Chemotherapy of infectious disease.  On successful completion of this module, the student should: <ul style="list-style-type: none"> <li>o have profound <b>knowledge</b> of basic pharmacologic principles that govern the action of all drugs on the body and how drugs produce therapeutic and side effects.</li> <li>o have <b>knowledge and understanding</b> of how specific characteristics of patient and the genetics can affect the response to a particular class of drugs;</li> <li>o <b>understand and explain</b> the rationale behind designing different dosing regimens of particular drugs in specific patient populations;</li> <li>o <b>understand</b> the pharmacology and clinical use of the major class of clinically important drugs;</li> <li>o <b>demonstrate skill</b> in recognize adverse effects and drug interaction and <b>capacity</b> for reading and understand other texts on related topics.</li> </ul>
3	Prerequisites and learning activities	The student must know principles of: anatomy, physiology, cell biology and biochemistry.
4	Teaching methods and language	Lectures. Language: Italian and English <b>Ref. Text books:</b> - Richard D. Howland-Mary J. Mycek <i>LE BASI DELLA FARMACOLOGIA</i> , Zanichelli, 2007. - Furlanut M. <i>Farmacologia- Principi e Applicazioni</i> II Edizione 2013 Piccin. - Bertram G. Katzung, Susan B. Masters, Anthony J. Trevor <i>Basic and Clinical Pharmacology</i> , 12 <sup>th</sup> Edition Mc Graw Hill LANGE™ 2012.
5	Assessment methods and criteria	oral exam

<b>Programme of “ASSISTENZA E CURE IN MEDICINA GENERALE E SPECIALISTICA”</b>		
<b>“CARE AND TREATMENT IN GENERAL AND SPECIALIST MEDICINE”</b>		
This course is composed of two modules: 1) Internal Medicine, 2) Nursing in General and Specialist Medicine		
<b>D4114 , COMPULSORY</b>		
<b>First Cycle Degree in NURSING, 2<sup>nd</sup> Year, 1<sup>st</sup> Semester</b>		
<b>Number of ECTS credits: 7 (workload is 210 hours; 1 credit = 30 hours)</b>		
<b>1) INTERNAL MEDICINE (3 ECTS)</b>		
Teacher: <b>Lia GINALDI</b>		
1	Course objectives	The goal of this course is to provide the fundamentals of Internal Medicine, through the study in depth of the major diseases and their signs and symptoms. Lectures and simulated clinical scenarios will enable the student to learn and acquire advanced skills and ability for evaluation and interpretation of symptoms on the management of acute and chronic health problems.
2	Course content and Learning outcomes (Dublin	<b>Topics of the module include:</b> -Medical care to the patient. Rheumatic and autoimmune diseases. Allergies.

	descriptors)	<p>-Medical emergencies and anaphylactic shock.  -Osteoporosis, osteoarthritis and chronic inflammatory diseases of the elderly.  -Lymphadenopathy and fever. Hematopoiesis and hematologic abnormalities  -Endocarditis and sepsis. Hypertension, diabetes and cardiovascular diseases.  -Dyspnea and heart failure. Respiratory failure. Renal failure.</p> <p>On successful completion of this module you should be able to:</p> <ul style="list-style-type: none"> <li>o Demonstrate the <b>knowledge and understanding</b> of the fundamentals of Internal Medicine and of the role of nurse in patient's care.</li> <li>o Demonstrate the <b>application of nursing knowledge and skills</b> in the assessment and management of patients under treatment in Internal Medicine Departments.</li> <li>o <b>Critically evaluate</b> clinical signs of the main dysfunctions and early <b>warning signs</b>.</li> <li>o be able to <b>implement</b> nursing care planning starting from the patient medical diagnosis.</li> <li>o be able to <b>explain</b> to the patients and to other professionals the signs and symptoms of the main diseases.</li> <li>o <b>Critically analyse</b> current Internal Medicine nursing practice in the medical setting.</li> <li>o <b>Evaluate the role</b> of the nurse in the prevention of main diseases.</li> <li>o be able to <b>develop and deepen knowledge</b> in the field of internal medicine nursing on the level of expertise</li> </ul>
3	Prerequisites and learning activities	The student must have the basis of human physiology and anatomy.
4	Teaching methods and language	Lectures, team work, exercises, home work. Language: Italian. <b>Ref. Text books:</b> R. Massini, C. Longhi, P. Marchetti, F. Passeretti, A. Pelosio, U. Recine <i>"MEDICINA INTERNA 3"</i> , Editore <i>MCGRAW- HILL, 2009</i>
5	Assessment methods and criteria	Written and oral exam, short report.

## **2) NURSING IN GENERAL AND SPECIALIST MEDICINE (4 ECTS)**

Teacher: **Vittorio FONZO**

1	Course objectives	<p>The goal of this course is to provide the fundamentals skills for:</p> <ul style="list-style-type: none"> <li>• recognize and know how to manage, independently or in collaboration with physicians or other professionals, the main problems care of patients with medical illness;</li> <li>• describe and apply the knowledge of the techniques and procedures necessary for the most common diagnostic tests in medicine.</li> </ul>
2	Course content and Learning outcomes (Dublin descriptors)	<p><b>Topics of the module include:</b>  The blood samples (venous, capillary, arterial) and the most common blood tests. Major diagnostic investigations in medicine. Nursing care of: patient with fever, high blood pressure, ischemic heart disease, acute pulmonary embolism, heart failure, mellitus, obesity, liver disease, respiratory problems restrictive-obstructive disease (COPD), bronchial asthma.</p> <p>On successful completion of this module, the student should:</p> <ul style="list-style-type: none"> <li>• <b>Acquire knowledge and understanding</b> of the fundamentals of major needs of the medical patients.</li> <li>• <b>Apply knowledge and understanding</b> in the identification and management of the main problems care of patients with medical illness.</li> <li>• <b>be able to identify</b>, independently or in collaboration with physicians or other professionals, the best solutions to the main problems care of patients with medical illness.</li> <li>• <b>be able to describe</b> to the patients and other professionals the techniques and procedures necessary for the most common diagnostic tests and care interventions in medicine.</li> <li>• <b>be able to assess</b> the own knowledge needs and then to guide own future learning in these topics</li> </ul>
3	Prerequisites and learning activities	The student must have the basis of human physiology and anatomy.
4	Teaching methods and language	Lectures, team work, exercises, home work. Language: Italian <b>Ref. Text books:</b> R. Massini, C. Longhi, P. Marchetti, F. Passeretti, A. Pelosio, U. Recine <i>"MEDICINA</i>

		<i>INTERNA 3</i> ", Editore <i>MCGRRAW- HILL</i> , 2009. Brunner, Lillian Sholtis <i>"NURSING MEDICO-CHIRURGICO"</i> – 2 Edizione ed. italiana / a cura di Giorgio Nebuloni - Casa Editrice Ambrosiana, 2001
5	Assessment methods and criteria	Written and oral exam, short report.

<b>Programme of "ASSISTENZA E CURE IN CHIRURGIA GENERALE E SPECIALISTICA"</b> <b>"CARE AND TREATMENT IN GENERAL AND SPECIALIST SURGERY"</b>		
This course is composed of two modules: 1) General Surgery, 2) Nursing in General and Specialist Surgery		
<b>D4116, COMPULSORY</b>		
<b>First Cycle Degree in NURSING, 2<sup>nd</sup> Year, 1<sup>st</sup> Semester</b>		
<b>Number of ECTS credits: 7 (workload is 210 hours; 1 credit = 30 hours)</b>		
<b>1) GENERAL SURGERY (3 ECTS)</b>		
Teacher: <b>Alessio AGNIFILI</b>		
1	Course objectives	The goal of this course is to provide the students with the fundamental notions, methods and protocols for the care and treatment of surgical patients, those who have undergone a minor or major surgical procedure. The students will be able to know and understand how to provide care and assistance to surgical patients before, during, and after surgery in a wide range of operations.
2	Course content and Learning outcomes (Dublin descriptors)	<b>Topics of the module include:</b> Gastro Esophageal Reflux Disease. Esophagus Carcinoma. Gastric and duodenal peptic ulcer. Gastric lymphoma and gastric epithelial neoplasms. Acute appendicitis. Colon diverticular disease . Large Intestine Neoplasms. Hemorrhoids. Perianal fistulas and abscesses. Pilonidal sinus. Breast Fibroadenoma and Neoplasms. Inguinal hernias. Surgical treatment of obesity.  On successful completion of this module, the students should - <b>know</b> the main pathologies requiring surgical treatment. - <b>understand</b> the need of different knowledge and skills for implementing nursing tasks in different contexts, pediatrics, neonatology, oncology, nephrology, rehabilitation or acute care. - <b>know and understand</b> the importance of skilled assistance to the surgeon during surgery, in performing several tasks associated with the surgery. - <b>recognize</b> the importance of the post-operative care as a critical part of the work especially in acute recovery, and <b>know the standard</b> procedures in both critical and routine processes. - be able to <b>assess</b> their own knowledge, to <b>identify</b> the learning needs and to plan future learning in these topics by reading and understanding scientific literature.
3	Prerequisites and learning activities	The student must have the basis of human physiology and anatomy.
4	Teaching methods and language	Lectures. Language: Italian Ref. Text books: Bresadola <i>"Chirurgia per infermieri"</i> Edises. 2006
5	Assessment methods and criteria	Written and oral exam.
<b>2) NURSING IN GENERAL AND SPECIALIST SURGERY (4 ECTS)</b>		
Teacher: <b>Stefania BUFACCHI</b>		
1	Course objectives	The goal of this course is to provide the fundamentals skills for: -providing care to patients who need surgical treatment, before, during and after the operation; -applying knowledge to the whole process, from the preparation of the operating room to the check of the functionality of tools and equipment for the procedure, with emphasis on maintaining a sterile environment, before, during and after the procedure.
2	Course content and Learning outcomes (Dublin descriptors)	<b>Topics of the module include:</b> Preoperative, intraoperative and postoperative nursing. Medico-legal and ethical implications. Sterilization. Management of patients anxiety and pain. Immediate and late complications of surgery: nursing responsibilities. Nursing care and management of the patient with tracheostomy, tracheotomy, central venous

		<p>catheterization, arterial catheter. PVC and its detection. Prevention and control of surgical infections: asepsis, antisepsis, sepsis in surgical nursing and related measures. The surgical wound and nursing responsibilities.</p> <p>On successful completion of this module, the student should</p> <ul style="list-style-type: none"> <li>- <b>know how</b> to prepare a patient for surgery, both physically and emotionally.</li> <li>- <b>understand</b> the importance of the pre-operative care and <b>be able to check</b> the patient's vitals, to administer medications, help to sterilize and mark the surgical site and to explain the procedure to the patient, and ease fears about the upcoming surgery and recovery.</li> <li>- <b>know and understand</b> how to assist the surgeon during surgery, passing instruments, keeping an eye on the patient's vital signs, and performing other tasks associated with the surgery.</li> <li>- <b>recognize</b> the importance of the post-operative care as a critical part of the work especially in acute recovery, and are able to keep an eye on patients who are at serious risk of complications, and on more standard cases by monitoring vital signs, looking for signs of complications, and administering medications.</li> <li>- <b>be able to provide</b> individualized nursing care to critically-ill patients as well as administering prescribed medications, typically intravenously, ordering and evaluating diagnostic tests, monitoring specialized equipment and interpreting electronic displays, such as cardiac monitors, respirators, ventilators, manometers and oxygen pumps, as well as responding to life-threatening situations based upon standing protocols.</li> <li>- <b>be able to explain</b> patients and care givers how to manage their illness or injury, and the post-treatment care needs both in the hospital and at home such as diet, nutrition and exercise programs, as well as detailed instructions regarding medications and rehabilitation.</li> <li>- be able to <b>assess</b> their own knowledge, <b>to identify</b> the learning needs and to plan future learning in these topics by reading and understanding scientific literature.</li> </ul>
3	Prerequisites and learning activities	The student must have the basis of human physiology and anatomy.
4	Teaching methods and language	Lectures, team work, exercises, home work. Language: Italian Ref. Text books: White " <i>Fondamenti di Infermieristica</i> " Casa Editrice Edises. 2013
5	Assessment methods and criteria	Written and oral exam, short report.

<p><b>Programme of "IGIENE, SICUREZZA ED ORGANIZZAZIONE PROFESSIONALE"</b>  <b>"HYGIENE, SAFETY AND PROFESSIONAL ORGANIZATION"</b></p>		
<p><b>This course is composed of three modules: 1) General and Applied Hygiene, 2) Labor Law, 3) General Sociology</b></p>		
<p><b>D4118 , COMPULSORY</b></p>		
<p><b>First Cycle Degree in NURSING, 2<sup>nd</sup> Year, 2<sup>nd</sup> Semester</b></p>		
<p><b>Number of ECTS credits: 10 (workload is 300 hours; 1 credit = 30 hours)</b></p>		
<p><b>1) GENERAL AND APPLIED HYGIENE (4 ECTS)</b></p>		
<p>Teacher: Anna Rita GIULIANI</p>		
1	Course objectives	The goal of this course is to provide the concept of primary, secondary and tertiary prevention strategies to use to get health outcomes in both living and healthcare environments and to acquire the skills to control the biological and chemical risks.
2	Course content and Learning outcomes (Dublin descriptors)	<p><b>Topics of the module include:</b></p> <ul style="list-style-type: none"> <li>• Areas of intervention and Hygiene objectives</li> <li>• Factors influencing health status and measures of frequency of health events ( major statistical health indexes)</li> <li>• Epidemiological studies : descriptive , analytical , experimental and molecular.</li> <li>• Epidemiology of infectious diseases (the epidemiological triangle : the characteristics of the infection source, of the environment and receptive host , mode of transmission and spread of disease within the community)</li> <li>• Primary prevention of infectious diseases (notification , detection , isolation, environmental remediation , immunoprophylaxis)</li> <li>• Secondary prevention of infectious diseases: post-exposure prophylaxis</li> </ul>

		<ul style="list-style-type: none"> <li>• The primary and secondary prevention of chronic degenerative diseases: screening (characteristics of a test and a screening campaign)</li> <li>• Health education as a prevention tool</li> <li>• The indoor air effects on human health, microbiologic air monitoring.</li> <li>• Nosocomial infections: endogenous and exogenous factors involved in the NI, prevention and control measures.</li> <li>• The chemical and biological risks in a hospital setting</li> </ul> <p>On successful completion of this Module the students are expected to:</p> <ul style="list-style-type: none"> <li>- <b>know how</b> to protect healthy people from developing a disease or experiencing an injury in the first place;</li> <li>- <b>know how</b> to prevent problems after an illness or serious risk factors have already been diagnosed.</li> <li>- <b>be able to help</b> people manage complicated, long-term health problems such as diabetes, heart disease, cancer and chronic musculoskeletal pain.</li> <li>- <b>be able to apply</b> knowledge to practice both in the care of patients and in the management of hospital departments.</li> <li>- <b>be able to apply</b> the legislation about prevention and management of risks.</li> <li>- be able to <b>identify</b> infection risk factors and to <b>apply</b> the proper methodology for immunization.</li> <li>- be able to <b>communicate</b> to patients and caregivers treatment protocols (drugs, exams, physical exercise, etc.) to prevent health deterioration, as prescribed by the doctors.</li> <li>- have developed the <b>capacity</b> to control potential hazards at home and in the workplace</li> <li>- <b>demonstrate capacity</b> to read and understand scientific literature in the field for the continuous up-dating of their knowledge.</li> </ul>
3	Prerequisites and learning activities	The student should have basic knowledge of microbiology
4	Teaching methods and language	Lectures. Language: Italian <b>Textbook recommended:</b> Barbuti, Belevi, Fara " <i>IGIENE</i> ", Monduzzi Ed. , 2002. Meloni, Pellissero. " <i>IGIENE</i> ", Casa Editrice Ambrosiana, 2007. The student may consult any text on hygiene and preventive medicine for the exam
5	Assessment methods and criteria	Oral exam.
<b>2) LABOR LAW (3 ECTS)</b>		
Teacher: Pietro LAMBERTUCCI		
1	Course objectives	The goal of this course is to facilitate the understanding of the concepts that are the basis of the work organization of health care facilities and of the worker's rights.
2	Course content and Learning outcomes (Dublin descriptors)	<p><b>Topics of the module include:</b> Powers, functions and responsibility of public workers. Term contract in the public employment. Regulation of safety in the work place. Risk assessment between the jurisprudential guidelines and methods of protection.</p> <p>On successful completion of this module, the student should:</p> <ul style="list-style-type: none"> <li>o <b>Know and understand</b> the fundamentals of the rights and duties in the workplace.</li> <li>o <b>Apply knowledge and understanding</b> of the organization of the workplace to their practice.</li> <li>o <b>be able to implement</b> strategies for the improvement of the workplace organization in accordance with the laws.</li> <li>o <b>Be able to explain</b> to the patients and to other professionals work strategies for a modern and flexible labor market.</li> <li>o <b>Have developed capacities to</b> assess their knowledge needs and then plan their own future learning in these topics.</li> </ul>
3	Prerequisites and learning activities	The student must have the basis of human sciences.
4	Teaching methods and language	Lectures, team work, exercises, home work. Language: Italian <b>Ref. Text books:</b>

		- Pietro Lambertucci, <i>Lineamenti di diritto del lavoro</i> , Libreria universitaria Benedetti, L'Aquila, 2008.
5	Assessment methods and criteria	Written and oral exam, short report.
<b>3) GENERAL SOCIOLOGY (3 ECTS)</b>		
Teacher: Mirella DEL PRINCIPE		
1	Course objectives	The goal of this course is to provide adequate knowledge of the theory and the basic concepts of sociology, as well as the history of the discipline.
2	Course content and Learning outcomes (Dublin descriptors)	<p><b>Topics of the module include:</b>  THE ORIGINS OF SOCIOLOGY: themes of classical sociology, the main sociological trends.  SOCIOLOGY FIELDS OF STUDY: the sociology of organizations, sociology and politics, the hospital and medical sociology. SOCIOLOGICAL PRINCIPLES FOR HEALTH CARE: the evolution of the concepts of health and disease, the concept of role, the role of the sick, the nurse's role. THE METHODOLOGY: different types of interview, participant observation and freedom, experiment.</p> <p>On successful completion of this module, the student should:</p> <ul style="list-style-type: none"> <li>o <b>Define</b> Sociology and <b>discuss</b> Sociological theorists and theory;</li> <li>o <b>Discuss</b> how Sociology may be relevant to nursing practice;</li> <li>o <b>Critically explore</b> how social factors such as class, ethnicity and gender affect health and life span</li> <li>o <b>Critically explore</b> how Sociology challenges biomedical understandings of health</li> <li>o <b>Apply a range</b> of skills relating to <b>effective team-working</b>, project management and presentation</li> <li>o Demonstrate the <b>ability to critically review and integrate</b> in communication the complex relationship between sociology and nursing, both orally and in writing</li> <li>o demonstrate <b>effective communication and collaboration</b> skills in the context of team working</li> <li>o be able to <b>explain</b> to the patients and to other professionals sociological research methods and techniques of the different fields of application, both qualitative and quantitative.</li> <li>o be able to <b>assess</b> the own knowledge needs and then to guide own future learning in these topics.</li> </ul>
3	Prerequisites and learning activities	The student must have basic knowledge in human sciences.
4	Teaching methods and language	Lectures, team work, exercises. Language: Italian. <b>Ref. Text books:</b> -Giovanni Guerra, " <i>Psicosociologia dell'ospedale</i> " La Nuova Italia Scientifica, 1992. -Alessandro Cavalli " <i>Incontro con la Sociologia</i> ", Il Mulino, 2001. G-alliano Cocco, Antonio Tiberio " <i>Lo sviluppo delle competenze relazionali in ambito sanitario</i> ", Franco Angeli, 2005.
5	Assessment methods and criteria	Written and oral exam, short report.

**Programme of "ASSISTENZA E CURE AL PAZIENTE FRAGILE E DISABILE"  
"CARE AND TREATMENT OF THE FRAIL AND DISABLED PATIENT"**

This course is composed of three modules: 1) Psychiatry oriented to the care of frail patient, 2) Neurology oriented to the care of disabled patient, 3) Frail and disabled patient nursing care

**D3804, compulsory**

**First Cycle Degree in NURSING, 2<sup>nd</sup> year, 2<sup>nd</sup> semester**

**Number of ECTS credits: 9 (workload is 270 hours; 1 credit = 30 hours)**

**1) PSYCHIATRY ORIENTED TO THE CARE OF FRAIL PATIENT (3 ECTS)**

**Teacher: Alessandro ROSSI**

1	Course objectives	The goal of this course is to improve the recognition and treatment of psychiatric patients, and to promote their general health.
2	Course content and Learning outcomes (Dublin descriptors)	<p><b>Topics of the module include:</b> The psychopathology of the elderly, adolescent. Psychiatric treatment in the extreme age. Disability and pharmacotherapy in frail populations. Personality disorders. The use of substances.</p> <p>On successful completion of this module, the student should:</p> <ul style="list-style-type: none"> <li>○ <b>Acquire knowledge and understanding</b> of the fundamentals of Psychiatry.</li> <li>○ <b>Apply knowledge and understanding</b> in the recognition and treatment of psychiatric patients.</li> <li>○ be able to <b>promote</b> the health in Psychiatric patients.</li> <li>○ be able to <b>explain</b> to the patients and to other professionals the goal of Psychiatric treatment.</li> <li>○ be able to <b>assess</b> the own knowledge needs and plan future learning in these topics</li> </ul>
3	Prerequisites and learning activities	The student must have the basis of human sciences and physiology.
4	Teaching methods and language	Lectures, team work, exercises, home work. Language: Italian <b>Ref. Text books :</b> Biondi et al. <i>Manuale di Psichiatria</i> , Masson 2009.
5	Assessment methods and criteria	Written exam.

**2) NEUROLOGY ORIENTED TO THE CARE OF DISABLED PATIENT (3 ECTS)**

**Teacher: Carmine MARINI**

1	Course objectives	The goal of this course is to improve the recognition and treatment of neurologic patients, and to promote their general health and autonomy.
2	Course content and Learning outcomes (Dublin descriptors)	<p><b>Topics of the module include:</b> Neurological semiotics (consciousness, gnosis, praxis, affect); EEG, EMG, evoked potentials, PET; Neuroimaging examinations (MRI, CT SCAN, Arteriography); Lumbar puncture; echodoppler; Evaluation of the patient with disorder of consciousness; Epilepsy; Demyelinating diseases; Parkinson's disease and parkinsonian syndromes; Motor neuron disease; Principal compressive syndromes of the peripheral nervous system; Myasthenic syndrome and myasthenia; Balance systems: vertiginous syndromes, cerebellar syndromes; Cerebrovascular disease.</p> <p>On successful completion of this module, the student should:</p> <ul style="list-style-type: none"> <li>● <b>know and understand</b> the fundamentals of Neurology.</li> <li>● <b>Apply knowledge and understanding</b> in the recognition and treatment of neurologic patients.</li> <li>● be able to <b>implement strategies</b> for the health and the maintenance/recovery of autonomy of neurologic patients.</li> <li>● be able to <b>explain</b> to the patients and to other professionals the goal of neurologic treatment.</li> <li>● be able to <b>assess</b> the own knowledge needs and then <b>read and understand</b> scientific publications in these topics</li> </ul>
3	Prerequisites and learning activities	The student must have the basis of human physiology and anatomy.
4	Teaching methods and language	Lectures, team work, exercises, home work. Language: Italian <b>Ref. Text books:</b> Lenzi, Di Piero, Padovani. <i>"Compendio di neurologia"</i> Piccin.ed. 2013.

5	Assessment methods and criteria	Written and oral exam.
<b>3) FRAIL AND DISABLED PATIENT NURSING CARE (3 ECTS)</b>		
<b>Teacher: Cristina PETRUCCI</b>		
1	Course objectives	The goal of this course is to provide the fundamentals of "chronic and frail conditions", identify the characteristics in patients and planning appropriate intervention strategies.
2	Course content and Learning outcomes (Dublin descriptors)	<p><b>Topics of the module include:</b> Ageing population: social, economic, health issues. Multidimensional assessment of the elderly. Organization of territory services. Assistance to the person with Alzheimer's, with stroke, with Parkinson's disease, with Multiple Sclerosis. The health and quality of life in the elderly. The mental health illness. The therapeutic communication in psychiatry. Organization of mental health services. Patient Care with anxiety-related disorders, with mood disorders, with thought disorders, with addiction and substance abuse. Protection of the patient with psychiatric problems. Promotion / health education.</p> <p>On successful completion of this module, the student should:</p> <ul style="list-style-type: none"> <li>○ <b>know and understand</b> the fundamentals of chronic and frail conditions of the patients.</li> <li>○ <b>Apply knowledge and understanding</b> in prevention and protection measures for frail patients.</li> <li>○ <b>be able to implement</b> models of nursing care delivery and organization, for frail inpatients e outpatients.</li> <li>○ <b>be able to explain to the patients</b> and to other professionals strategies for recognizing of the frail patients characteristics and planning appropriate intervention strategies.</li> <li>○ <b>be able to assess</b> the own knowledge needs and implement a <b>lifelong learning</b> strategy</li> </ul>
3	Prerequisites and learning activities	The student must have basic knowledge in human sciences and basic nursing.
4	Teaching methods and language	<p>Lectures, team work, exercises, home work. Language: Italian <b>Ref. Text books:</b> R.F. Craven. <i>PRINCIPI FONDAMENTALI DELL'ASSISTENZA INFERMIERISTICA</i>. Casa Editrice Ambrosiana. Quinta edizione. 2013; NANDA – I. <i>DIAGNOSI INFERMIERISTICHE – DEFINIZIONI E CLASSIFICAZIONE</i> 2012-14. Casa Editrice Ambrosiana Potter-Perry. <i>Infermieristica generale-clinica</i>. Casa Editrice Sorbona; 2006 Barelli P, Spagnoli E. <i>Nursing di salute mentale</i> - Editore: Carocci Faber., 2004</p>
5	Assessment methods and criteria	Written and oral exam, short report.

<b>Programme of "ASSISTENZA E CURE IN AREA MATERNO-INFANTILE"</b>		
<b>"CARE AND TREATMENT IN MATERNAL AND CHILD AREA"</b>		
<b>This course is composed of two modules: 1) Obstetrics and Gynecology, 2) Paediatrics and Neonatology</b>		
<b>D0134 , Compulsory</b>		
<b>First Cycle Degree in NURSING, 3<sup>rd</sup> year, 1<sup>st</sup> semester</b>		
<b>Number of ECTS credits: 6 (workload is 180 hours; 1 credit = 30 hours)</b>		
<b>1) OBSTETRICS AND GYNECOLOGY (3 ECTS)</b>		
<b>Teacher: Gaspare CARTA</b>		
1	Course objectives	The goal of this course is to achieve clinical competence in managing common and important clinical problems that women may present within the discipline of obstetrics and gynecology; in particular the prenatal and perinatal periods and the oncological diseases.
2	Course content and Learning outcomes (Dublin descriptors)	<p><b>Topics of the module include:</b> - Placenta praevia.- Preterm premature rupture of membranes. - Preterm birth. - Ectopic pregnancy. - Pregnancy diagnosis. - Labour progression – normal and abnormal. Vaginal</p>

		<p>delivery. - Diabetes in pregnancy. - Abruptio placentae. - Hypertension in pregnancy.  - Oncological diseases: Vulvar cancer, Cervical cancer, Ovarian cancer, Endometrial lesions.  - Endometriosis. - Menopause. - Contraceptive methods. - Menstrual cycle. - Vaginal discharge. - Spontaneous abortion.</p> <p>On successful completion of this module, the student should:</p> <ul style="list-style-type: none"> <li>- <b>Perform an assessment</b> of symptoms and physical findings associated with hypoestrogenism and the management of these menopausal/perimenopausal symptoms.</li> <li>- Demonstrate the initial development of the <b>clinical skills</b> required for women's routine health maintenance including: taking an effective history and physical, developing a differential diagnosis, and developing a management plan for common disorders and conditions.</li> <li>- Demonstrate the <b>ability to assess</b> the health of the mother and fetus health during pregnancy and labor and demonstrate the proper technique for delivering the baby.</li> <li>- <b>Know how</b> to diagnose pregnancy and determine gestational age.</li> <li>- <b>Know when</b> to perform diagnostic studies during pregnancy and understand the results.</li> <li>- <b>Know signs</b> and symptoms of labor.</li> <li>- <b>Know the three stages</b> of labor and recognize common abnormalities.</li> <li>- <b>Describe</b> the steps of a vaginal delivery.</li> <li>- Cite the <b>risk factors</b> for preterm labor and its signs and symptoms.</li> <li>- Cite the <b>risk factors</b> for premature rupture of membranes and describe the signs, symptoms, and diagnostic methods to confirm rupture of membranes.</li> <li>- <b>Discuss</b> reproductive cancers. List risk factors for cervical, endometrial, and ovarian cancers.</li> <li>- <b>Describe</b> symptoms and physical findings of a patient with endometrial cancer and with ovarian cancer.</li> <li>- <b>List</b> the factors predisposing patients to ectopic pregnancy and <b>explain the diagnostic</b> tests used to confirm ectopic pregnancy.</li> <li>- <b>Discuss</b> treatment options for ectopic pregnancy.</li> </ul>
3	Prerequisites and learning activities	The student must know female physiology, anatomy, pathology microbiology and oncology, in particular physiologic and pathologic pregnancy.
4	Teaching methods and language	Lectures, team work, home work, tutorials, simulations. <b>Language:</b> Italian <b>Ref. Text books:</b> Caruso, <i>Manuale di Ginecologia e Ostetricia</i> , CIC Edizioni Internazionali II edizione 2012. Colacurci, Cappadona, Marchesoni, Piga, <i>Ostetrica e Ginecologia per Ostetrica/o</i> , Idelson Gnocchi Editore, 2013.
5	Assessment methods and criteria	Oral exam.
<b>2) PAEDIATRICS AND NEONATOLOGY (3 ECTS)</b>		
<b>Teacher: Giovanni FARELLO</b>		
1	Course objectives	The goal of this course is to provide the knowledge of the main health problems of child patients.
2	Course content and Learning outcomes (Dublin descriptors)	<p><b>Topics of the module include:</b>  Physiological and pathological growth and development of the child. Infant nutrition: breast and artificial feeding, weaning, jaundice, nutrition in the second year of life. Perinatal suffering and neonatal asphyxia and care; hyaline membrane disease. Gastro enteric tract diseases: Celiac Disease; Vomiting; Acute and chronic diarrhoea; Cystic Fibrosis; Food allergies.  Respiratory diseases: diseases of the upper airways. Bronchiolitis; Pneumonia.  Cardiovascular diseases: Major congenital heart disease; Acquired heart disease. Rheumatic disease. Urinary tract diseases: Glomerulonephritis; Nephritic and Nephrotic syndromes; Urinary tract infections.  Nervous system diseases: febrile seizures; Cerebral palsy.  Infectious disease: Major viral and bacterial infections.</p> <p>On successful completion of this module, the student should</p> <ul style="list-style-type: none"> <li>o <b>know and understand</b> the fundamentals of Paediatrics and neonatology.</li> <li>o <b>Apply knowledge and understanding</b> in the recognition of the main problems in the</li> </ul>

		<p>care of child patients.</p> <ul style="list-style-type: none"> <li>○ be able to <b>implement</b> nursing care planning starting from the newborn and child patient diagnosis.</li> <li>○ be able to <b>explain</b> to the little patients, their parents and to other professionals the signs and symptoms of the main physiological and pathological clinical patterns in newborns and children.</li> <li>○ be able to assess the own knowledge needs and then to guide own future learning in these topics</li> </ul>
3	Prerequisites and learning activities	The student must have the basis of human physiology and anatomy.
4	Teaching methods and language	Lectures. Language: Italian Ref. Text books: Notes of the teacher
5	Assessment methods and criteria	Written and oral exam, short report.

<p><b>Programme of</b>  <b>“INFERMIERISTICA IN AREA MATERNO-INFANTILE E PSICOLOGIA DELLO SVILUPPO”</b>  <b>“NURSING IN MATERNAL AND CHILD AREA AND DEVELOPMENTAL PSYCHOLOGY”</b></p>		
<p>This course is composed of two modules: 1) Nursing in Maternal and Child area, 2) Developmental Psychology</p>		
<p><b>D0144, compulsory</b></p>		
<p><b>First cycle Degree in NURSING, 3<sup>rd</sup> year, 1<sup>st</sup> semester</b></p>		
<p><b>Number of ECTS credits: 6 (workload is 180 hours; 1 credit = 30 hours)</b></p>		
<p><b>1) NURSING IN MATERNAL AND CHILD AREA (3 ECTS)</b></p>		
<p>Teacher: Claudia DE SANCTIS</p>		
1	Course objectives	<p>The goal of this course is to provide students with adequate knowledge of maternal and child care, focusing on the role of the nurse in meeting the physiological, psychosocial, cultural and developmental needs of the maternal and child client. Students will be able to provide and manage care for women, children and families in a variety of settings.</p>
2	Course content and Learning outcomes (Dublin descriptors)	<p><b>Topics of the module include:</b>  Nursing care to women during physiological and pathological pregnancy, in physiological childbirth, during the puerperium, during breastfeeding. Nursing care to women and couples with issues of reproductive function. Contraceptive counseling and menopause. Nursing care of the term newborn in the delivery room and the nursery. The hospitalization of the child: the acceptance, visits, security measures, discharge, the game and the hospital school, the family-oriented assistance. Pediatric nursing process. Psychological and behavioral aspects of the child hospitalized.</p> <p>On successful completion of this module, the student should:</p> <ul style="list-style-type: none"> <li>○ <b>Know and understand</b> the structures and functions of the female and male reproductive Organs.</li> <li>○ <b>Describe</b> the physical and psychological reproductive changes that take place during puberty and pregnancy as well as at menopause.</li> <li>○ <b>Explain</b> health promotional considerations related to preconception.</li> <li>○ <b>Differentiate</b> between the signs of pregnancy and between the stages of fetal development.</li> <li>○ <b>Relate</b> the physiological changes of pregnancy to its clinical manifestations.</li> <li>○ <b>Differentiate</b> between the four major developmental tasks associated with the psychological adaptation to pregnancy.</li> <li>○ <b>Identify</b> dynamics of family interactions and <b>recommend</b> interventions to manage the common discomforts associated with pregnancy and childbirth.</li> <li>○ <b>Describe</b> the main psychological effects of the hospitalization of a child on the families and on the client, even if hospitalization is for middle and transient pathologies</li> <li>○ <b>Explain</b> emotional and psychological problems, such as anxiety and depression, among hospitalised children and adolescents and the main care methods.</li> <li>○ Have <b>capacities to continue learning</b> in the field</li> </ul>

3	Prerequisites and learning activities	The student must have the basis of human sciences, physiology and anatomy.
4	Teaching methods and language	Lectures. Language: Italian Ref. Text books: P. Di Giacomo, L. A. Rigon – <i>Assistenza Infermieristica e ostetrica in area materno infantile</i> – CEA. , 2002 - G. Rocco, L. Fabriani – <i>Infermieristica clinica in ostetricia- ginecologia</i> – Ed. Mc Graw Hill, 1997
5	Assessment methods and criteria	Written exam.
<b>2) DEVELOPMENTAL PSYCHOLOGY (3 ECTS)</b>		
Teacher: to be hired		
1	Course objectives	The goal of this course is to provide the knowledge about the social, scientific and ethical issues on the developmental main health problems of child patients. This module will cover three main areas of child development including birth and early infancy (early experiences), social development (the influences of parents and families and the peer group, developing social awareness) and cognitive development (perception, language, cognition, developing minds, intelligence).
2	Course content and Learning outcomes (Dublin descriptors)	<b>Topics of the module include:</b> Different approaches to developmental psychology; The theories of learning; The construction of knowledge; The dimensions of cognitive development; The cultural dimensions of development; Attachment theories.  By the end of the Module the student should - <b>know</b> the main areas of child development, including social development and cognitive development. - <b>know and understand</b> the theoretical approaches and models used to characterize change across childhood and adolescence. - <b>Understand</b> classical and contemporary theoretical views of child development and the methods developmental psychologists use to study change. - <b>Describe and evaluate</b> the main findings in cognitive developmental psychological research. - <b>Describe and evaluate</b> the main findings in social developmental psychological research. -have a <b>basic ability</b> to describe change in human development and consider different theoretical frameworks to understand how children develop. -have <b>capacities to up-date</b> knowledge and plan further learning by reading and understanding appropriate scientific literature
3	Prerequisites and learning activities	The student must have basic general preparation.
4	Teaching methods and language	Lectures. Language: Italian. Ref. Text books: Quaglia R., Longobardi C. <i>Psicologia dello sviluppo. Teorie, modelli e concezioni</i> , Trento, Erickson (2007)
5	Assessment methods and criteria	Written and oral exam.

<b>Programme of “ASSISTENZA E CURE INTENSIVE” “CARE AND TREATMENT IN INTENSIVE CARE UNITS”</b>
<b>This course is composed of three modules: 1) Resuscitation and Intensive Care, 2) Cardiovascular Diseases, 3) Clinical Nursing in Intensive care and Cardiology</b>
<b>D0160, compulsory</b>
<b>First Cycle Degree in NURSING, 3<sup>rd</sup> year, 2<sup>nd</sup> semester</b>
<b>Number of ECTS credits: 9 (workload is 270 hours; 1 credit = 30 hours)</b>
<b>1) RESUSCITATION AND INTENSIVE CARE (3 ECTS)</b>
Teacher: Alessandra CICCOTZI

1	Course objectives	The aim of the course is to ensure that students acquire and retain skill and knowledge about management of critical hill patients recovered in intensive care unit (ICU)
2	Course content and Learning outcomes (Dublin descriptors)	<p><b>Topics of the module include:</b> Principles of intensive care medicine. Cardiovascular pathophysiology: Heart failure, Shock (classification, etiopathogenesis, signs and symptoms, therapy). Respiratory pathophysiology: respiratory failure (Classification, etiology, therapy). Airway management: endotracheal intubation, percutaneous tracheostomy. Techniques of invasive, no invasive ventilation techniques and Oxygen therapy devices. Cardiovascular and respiratory monitoring in ICU. Invasive cardiovascular monitoring (invasive systemic artery pressure, pulmonary artery pressure, cardiac output, systemic and pulmonary resistances). Acid-Base disturbances: pathophysiology, classification, therapy. Electrolytes disturbances: pathophysiology, etiology. Blood volume restoration: fluid therapy, colloid and crystalloid. Head Injury: cerebral blood flow pathophysiology, intracranial pressure, neurologic evaluation (GCS), therapy. Polytrauma. Consciousness disturbances: coma, vegetative state. Caloric-proteic malnutrition: pathophysiology. Artificial nutrition: enteral, parenteral nutrition. Cardiac and vasoactive agents in emergency and ICU.</p> <p><b>Mandatory knowledge :</b> type and characteristics of ICU patient, multidisciplinary approach in the treatment of critical hill patient, techniques of invasive and no invasive ventilation, principles of enteral and parenteral nutrition,</p> <p><b>Knowledge of Monitoring in ICU :</b> invasive and no invasive modalities (cardiovascular, respiratory, cerebral and metabolic)</p> <p><b>Knowledge of the most important type of diseases in ICU</b></p> <p><b>Knowledge of nurse role in invasive procedures of critical hill patient</b> (central venous cannulation, percutaneous tracheostomy percutaneous endoscopic gastrostomy.).</p> <p>On successful completion of this module, the student should:</p> <ul style="list-style-type: none"> <li>- have profound <b>knowledge</b> of cardiac, respiratory and metabolic physiopathology, cerebral blood flow physiopathology, head trauma and polytrauma physiopathology</li> <li>- have <b>knowledge and understanding</b> of crucial nurse role in achieving a high-quality care in the intensive care units (ICUs)</li> <li>- <b>understand and explain</b> that ICU is a work environment where superior dedication is pivotal to optimize patients' outcomes</li> <li>- <b>understand</b> the impact of working with nurse specific guidelines on: airway management, mechanical invasive and no invasive ventilation, prevention and treatment of sepsis, management of artificial nutrition, and sedation</li> <li>- <b>demonstrate skill</b> in multidisciplinary nursing management of ICU patient</li> <li>- <b>demonstrate capacity</b> for reading and understand other texts on related topics</li> </ul>
3	Prerequisites and learning activities	The student must know some principles of: Anatomy, Cardiovascular, Respiratory, metabolic Physiology.
4	Teaching methods and language	Lectures and frequentation of intensive care unit Language: Italian <b>Ref. Text books:</b> Notes of the teacher
5	Assessment methods and criteria	Oral exam.
<b>2) CARDIOVASCULAR DISEASES (3 ECTS)</b>		
Teacher: <b>Silvio ROMANO</b>		
1	Course objectives	The goal of this course is to provide the knowledge of pathophysiology, symptoms and clinical presentation of the main cardiovascular disease, of the diagnostic methods used in the evaluation of cardiac patients. On successful completion of this module, the student should understand the clinical and functional findings of a cardiac patients.
2	Course content and Learning outcomes (Dublin descriptors)	<b>Topics of the module include:</b> Main symptoms in cardiac patients, Cardiovascular semeiotics, risk factors for cardiovascular disease, diagnostic examination in cardiac patients, Coronary artery disease, hypertension, ECG, Arrhythmias, Syncope, shock, Valvular heart diseases, Heart failure, cardiac arrest and cardiorespiratory resuscitation.

		<p>On successful completion of this module, the student should</p> <ul style="list-style-type: none"> <li>- have profound <b>knowledge</b> of basic symptoms in cardiac patients,</li> <li>- have <b>knowledge and understanding</b> of pathophysiology of the main cardiovascular diseases,</li> <li>- <b>understand and explain</b> the clinical profile of patients with cardiac diseases</li> <li>- <b>understand</b> advantages, limits and contraindications to cardiac diagnostic and therapeutic tools,</li> <li>- <b>demonstrate skill</b> in the evaluation of cardiac symptoms and <b>ability</b> to early recognize potentially life threatening clinical manifestations,</li> <li>- demonstrate <b>capacity</b> to plan an adequate assistance program in cardiac patients.</li> </ul>
3	Prerequisites and learning activities	The student must know the basic notions of cardiac anatomy and physiology, contained in the exams anatomy and physiology
4	Teaching methods and language	<p>Lectures, home work.</p> <p>Language: Italian</p> <p>Ref. Text books:</p> <p>M. Penco. <i>"Dispense di Cardiologia per le lauree triennali nelle professioni sanitarie"</i>. Cesi Edizioni, 2005.</p>
5	Assessment methods and criteria	Written exam.
<b>3) CLINICAL NURSING IN INTENSIVE CARE AND CARDIOLOGY (3 ECTS)</b>		
Teacher: Maria Luisa IANNI		
1	Course objectives	<p>The goal of this course is to develop skills in the Intensive Nursing and in Management of Critical Patient. It focuses on the role of the critical care nurse in relation to the person with cardiovascular disease and to determine the characteristics and severity of the major symptoms of the acutely ill person with ischaemic heart disease in the coronary care unit. The student will develop competence in cardiovascular and respiratory assessment, haemodynamic monitoring, arrhythmia interpretation of laboratory values and in his/her role as patient educator.</p>
2	Course content and Learning outcomes (Dublin descriptors)	<p><b>Topics of the module include:</b></p> <p>Concepts of critical care, critical patient, emergency, urgent</p> <p>Organization of care and main nursing diagnoses in critical care.</p> <p>Verification of critical vital (GCS, Trauma score, etc. ..). Management of the central and peripheral vascular access. Monitoring of respiratory function, Cardio-circulatory and Renal. Invasive Hemodynamic Monitoring. Assistance to the person in cardiopulmonary arrest. Management of the budget Idro – Electrolytic. Invasive mechanical ventilation. Non Invasive Mechanical Ventilation. The network system of emergency.</p> <p>On successful completion of this module, the students should</p> <ul style="list-style-type: none"> <li>-<b>Know and understand</b> the models and operational tools as well as the nursing diagnoses in critical area.</li> <li>-<b>Describe</b> the characteristics of the critically ill patient.</li> <li>-<b>Develop a greater understanding</b> of the principles which underpin the various aspects of critical care nursing particularly in relation to cardiovascular care.</li> <li>-Be <b>able to recognise</b> the signs and symptoms of organ or system failure, with particular attention to the cardio-vascular, respiratory, renal and cerebral apparatus and take the appropriate care treatments.</li> <li>-be <b>able to explain</b> to the patients and to other professionals nursing care plan in critically ill patients both in hospital and territorial emergency (until its stabilization, the initial recovery or death strategies for radiation surveillance and protection).</li> <li>-be <b>able to enhance knowledge</b> and appreciation of nursing theory and biopsychosocial sciences which underpin critical care nursing practice in a cardiovascular care setting.</li> <li>-<b>Develop skills</b> to enhance their professional practice, including critical analysis, creative thinking, decision making and communication.</li> </ul>
3	Prerequisites and learning activities	The student must know some principles of: Anatomy, Cardiovascular , Respiratory, metabolic Physiology and General and specialist nursing care.
4	Teaching methods and language	<p>Lectures and frequentation of intensive care unit</p> <p>Language: Italian</p> <p><b>Ref. Text books:</b></p> <p>Notes of the teacher</p>

5	Assessment methods and criteria	Written and oral exam.
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<b>Programme of “METODOLOGIA DELLA RICERCA” “RESEARCH METHODOLOGY”</b>		
<b>D4120, compulsory</b> <b>First Cycle Degree in NURSING, 3<sup>rd</sup> year, 2<sup>nd</sup> semester</b>		
<b>Number of ECTS credits: 3 (workload is 90 hours; 1 credit = 30 hours)</b>		
Teacher: Cristina PETRUCCI		
1	Course objectives	The goal of this course is to equip students with the in-depth skills required to carry out research in health care, with emphasis upon linking theoretical and methodological understandings with practical experience of research design and implementation. Students will acquire tools and methods for the identification of questions pertaining to nursing that could generate research hypotheses, and for the development of a research, answering questions arising from clinical practice and management through a critical reading of the scientific evidence reported in the literature, understanding the processes of transfer of research findings to nursing practice.
2	Course content and Learning outcomes (Dublin descriptors)	<p><b>Topics of the module include:</b>            Science and scientific research. Nursing Scientific Research quantitative and qualitative. Phases of scientific research. Bibliographic research. EBN-EBP. Guidelines. Protocols. Procedures. Critical reading of scientific production.</p> <p>By the end of this course the students should</p> <ul style="list-style-type: none"> <li>-<b>acquire knowledge</b> of a variety of methodological approaches and research techniques and <b>develop</b> their ability to critique evidence required for making informed policy decision and clinical recommendations.</li> <li>-<b>apply knowledge and understanding</b> to recognize research questions pertaining the clinical practice and to <b>appreciate</b> what research is and what it involves.</li> <li>- <b>be able to identify</b> credible sources of information and learn how to <b>critically evaluate</b> literature.</li> <li>- be able to <b>understand</b> the potential and limitations of the research in the biomedical and healthcare fields, answering questions arising from clinical practice and management through a critical reading of the scientific evidence reported in the literature.</li> <li>-<b>understand</b> that ethics is an important part of the research process</li> <li>-be able to <b>define</b> a research question and <b>comprehend</b> the differences between narrative and systematic reviews and between quantitative and qualitative research methods.</li> <li>-be <b>able</b> to source, store and cite relevant literature.</li> <li>-be able to <b>share</b> ideas about improving practice through research, to <b>explain</b> the importance of the transfer of research results into clinical practice, and <b>learn</b> ways of participating in research studies.</li> </ul>
3	Prerequisites and learning activities	The student must know some principles of informatics and epidemiology.
4	Teaching methods and language	Lectures, team work, exercises, home work. Language: Italian Ref. Text books: Paolo Chiari, Daniela Mosci, Enrico Naldi: L’infermieristica basata su prove di efficacia- McGraw-Hill; 2006. Lo Biondo-Wood G, Haber J. Metodologia della ricerca infermieristica. McGraw-Hill; 2004.
5	Assessment methods and criteria	Written and oral exam, short report.

<b>COMPULSORY WORK PLACEMENT</b> <b>The students must perform work placement in each year of the Degree Course</b> <b>Programme of “Tirocinio 1”</b> <b>“Work Placement I”</b>
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<b>The students will attend care settings of Internal Medicine, General Surgery, Ambulatories</b>		
<b>D3638 , compulsory</b>		
<b>First cycle Degree in NURSING , 1<sup>st</sup> year, 1<sup>st</sup> and 2<sup>nd</sup> semester</b>		
<b>Number of ECTS credits: 16 (workload is 480 hours; 1 credit = 30 hours)</b>		
Placement Coordinator: <b>Massimiliano FRATTALI</b>		
<b>1</b>	<b>Objectives</b>	The internship allows the student to: <ul style="list-style-type: none"> <li>• Make a point of view of application to foreground;</li> <li>• Integrate theoretical knowledge with practice;</li> <li>• Anticipate experience things that will deepen thereafter;</li> <li>• Maturing diagnostic skills (clinical judgment), through the formulation of hypotheses;</li> <li>• Ensure the welfare activities in the light of the principles of EBN;</li> <li>• Develop decision-making skills.</li> </ul>
<b>2</b>	<b>Course content and Learning outcomes (Dublin descriptors)</b>	<b>In the 1<sup>st</sup> year Topics include:</b> Nursing in of everyday life for people with non-severe disease states.  On successful completion of Internship, the student should: -acquire <b>knowledge and understanding</b> of the basic nursing. -apply <b>knowledge and understanding</b> to the organization of the clinical settings. -be able to <b>practice</b> basic nursing care. -be able to <b>relate and communicate</b> using appropriate terms to the patients and to other professionals about the basic nursing. - be able to <b>assess</b> the own knowledge needs and then <b>plan future learning</b> in these topics.
<b>3</b>	<b>Prerequisites and learning activities</b>	The student must attended nursing simulation and laboratory activity.
<b>4</b>	<b>Teaching methods and language</b>	Internship of care settings Language: Italian Ref. Text books: Taylor. <i>Manuale di tecniche e procedure infermieristiche</i> . Piccin 2013.
<b>5</b>	<b>Assessment methods and criteria</b>	Short report and practice exam.
<b>Programme of “Tirocinio II” “Work Placement II”</b>		
<b>The students will attend care settings of Specialist Medicine and Surgery, Ambulatories, Oncology, Laboratory analysis.</b>		
<b>D3640, compulsory</b>		
<b>First cycle Degree in NURSING , 2<sup>nd</sup> year, 1<sup>st</sup> and 2<sup>nd</sup> semester</b>		
<b>Number of ECTS credits: 20 (workload is 600 hours; 1 credit = 30 hours)</b>		
Placement Coordinator: <b>Massimiliano FRATTALI</b>		
<b>1</b>	<b>Objectives</b>	The internship allows the student to: <ul style="list-style-type: none"> <li>• Make a point of view of application to foreground;</li> <li>• Integrate theoretical knowledge with practice;</li> <li>• Anticipate experience things that will deepen thereafter;</li> <li>• Maturing diagnostic skills (clinical judgment), through the formulation of hypotheses;</li> <li>• Ensure the welfare activities in the light of the principles of EBN;</li> <li>• Develop decision-making skills.</li> </ul>
<b>2</b>	<b>Course content and Learning outcomes (Dublin descriptors)</b>	<b>In the 2<sup>nd</sup> year Topics include:</b> -Nursing in of everyday life for people with complex disease states, as well as administration of therapy.  On successful completion of Internship, the student should: -acquire <b>knowledge and understanding</b> the advanced nursing. -apply <b>knowledge and understanding</b> the organization of the specialized clinical settings. - be able to <b>practice</b> advanced nursing care. - be able to <b>relate and communicate</b> using appropriate terms to the patients and to other professionals about the advanced nursing. - be able to <b>assess</b> the own knowledge needs and then <b>plan</b> the future learning in the specialised topics.

3	Prerequisites and learning activities	The student must have completed Work Placement I.
4	Teaching methods and language	Internship of care settings Language: Italian Ref. Text books: Taylor. <i>Manuale di tecniche e procedure infermieristiche</i> . Piccin 2013.
5	Assessment methods and criteria	Short report and practice exam.
<b>Programme of “Tirocinio III”</b> <b>“Work Placement III”</b> <b>The students will attend critical and intensive, maternal and child care settings, and territorial structures.</b>		
<b>D3642 , compulsory</b> <b>First cycle Degree in NURSING , 3<sup>rd</sup> year, 1<sup>st</sup> and 2<sup>nd</sup> semester</b>		
<b>Number of ECTS credits: 24 (workload is 720 hours; 1 credit = 30 hours)</b>		
Placement Coordinator: <b>Massimiliano FRATTALI</b>		
1	Objectives	The internship allows the student to: <ul style="list-style-type: none"> <li>• Make a point of view of application to foreground;</li> <li>• Integrate theoretical knowledge with practice;</li> <li>• Anticipate experience things that will deepen thereafter;</li> <li>• Maturing diagnostic skills (clinical judgment), through the formulation of hypotheses;</li> <li>• Ensure the welfare activities in the light of the principles of EBN;</li> <li>• Develop decision-making skills.</li> </ul>
2	Course content and Learning outcomes (Dublin descriptors)	<b>In the 3<sup>rd</sup> year Topics include:</b> Nursing to patients with various and complex diseases and assistance to people in a special physiological condition (eg, pregnancy).  On successful completion of Internship, the student should: <ul style="list-style-type: none"> <li>-<b>acquire knowledge and understanding</b> the intensive and relational nursing.</li> <li>-<b>apply knowledge and understanding</b> the organization of the clinical settings.</li> <li>- be able to practice intensive nursing care and relational nursing.</li> <li>-be able to relate and communicate using appropriate terms to the patients and to other professionals about the intensive and relational nursing.</li> <li>- be able to assess the own knowledge needs and then plan future learning in advanced and specialised topics.</li> </ul>
3	Prerequisites and learning activities	The student must have completed Work Placement II.
4	Teaching methods and language	Internship of care settings Language: Italian Ref. Text books: Taylor, <i>Manuale di tecniche e procedure infermieristiche</i> . Piccin 2013.
5	Assessment methods and criteria	Short report and practice exam.