



UNIVERSITY OF L'AQUILA



Department of Health, Life and
Environmental Sciences

1st Cycle Degree in OBSTETRICS

Laurea in OSTETRICIA

Course Catalogue

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

1st Semester - Starting date: last week of September, end date: 3rd week of January

2nd Semester - Starting date: last week of February, end date: 1st week of June

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

Comprehensive Scheme of the First Cycle Degree in OBSTETRICS

YEAR	CODE	COURSE	Credits (ECTS)	Semester
I	D3798	Human Anatomy and Histology	4	1
	D1318	Genetics and Applied Biology	6	1
	D1324	Nursing Process Methodology	12	1
	D4203	Physiology and General Pathology	6	2
	D1354	General Obstetrics	6	2
	D1404	Techniques for drugs administration	7	2
		<i>Work Placement I</i>	16	1 and 2
II	D2362	Human and psycho-pedagogical sciences	6	1
	D1422	Gynaecology and Obstetrics	6	1
	D3907	Anaesthesia and Resuscitation	7	1
	D4208	Hygiene, Safety and Professional Organization	6	2
	D1466	Care and Treatment in Maternal and Child Area	6	2
		<i>Work Placement II</i>	24	1 and 2
III	D4211	Gyneacological Physiopathology	6	1
	D4214	Integrative and Formative Clinical Activities	8	1
	D4215	Integration between hospital and territory	9	2
		<i>Work Placement III</i>	24	1 and 2
I, II or III		<i>Other activities/courses:</i> - Professional Laboratories (3 ECTS) - English (3 ECTS) - Other activities (6 ECTS)	12	1 and/or 2
		<i>Free choice courses</i>	6	1 and/or 2
III		<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 OBSTETRICS, 1st Year, 1st Semester

Number of ECTS credits: 4 (total workload is 100 hours; 1 credit = 25 hours)

1) HUMAN ANATOMY (3 ECTS)

Teacher: Serena BIANCHI

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>Human Anatomy Unit – Contents:</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"> ○ have general knowledge the human body morphology ○ have knowledge and understanding of human anatomy in order to organize a discussion on morphological aspects in a comprehensive manner; ○ be able to explain the practical problems of human body using appropriate scientific language; ○ be able to apply the acquired knowledge to concrete cases as occurring in the professional life; ○ demonstrate skill to evaluate independently and motivate any different opinions about the problematic aspects of human body anatomy. ○ - demonstrate capacity for reading and understand other texts on morphologic related topics.
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 (1 ECTS)

Teacher: Carmela CICCARELLI

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>Topics of the human Histology modules include:</p> <ul style="list-style-type: none"> - Basic cell biology; - Histology of the different human tissues i.e. epithelial, glands, connective tissue (cartilage, bone and blood), muscle and nervous tissues. <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"> ○ Have acquired knowledge on cell structure and tissues organizations, ○ Be able to recognize the different tissues, ○ Be able to distinguish between the components of cells and tissues from all organ systems and explain their functions, ○ Be able to describe the normal structure and function of various cell types and tissues of

		female reproductive system; o Demonstrate capacity to read and understand scientific texts.
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

Programme of "GENETICA E BIOLOGIA APPLICATA" "GENETICS AND APPLIED BIOLOGY"		
This course is composed of two modules: 1) Medical Genetics 2) Applied Biology		
D1318, compulsory		
First Cycle Degree in OBSTETRICS, 1st year, 1st semester		
Number of ECTS credits: 6 (workload is 180 hours; 1 credit = 30 hours)		
1) MEDICAL GENETICS (3 ECTS)		
Teacher: Elvira D'ALESSANDRO		
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)	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, zigosity, genotype and phenotype. Genes. Somatic mutations, germ, chromosomal and genetic causes. Genetics of cancer. On successful completion of this module, the student should o Acquire knowledge and understanding of the fundamentals of heredity and its rules. o Demonstrate knowledge and understanding of mechanisms and processes that cause changes in genetic variation. o The student will be able to identify and assess the possibility of inheriting a disease and advise the patient to consult the specialist for tests. o The student will be able to explain to the patients and to other professionals the laws of heredity. o The student will be able to assess the own knowledge needs and then to guide own future learning in these topics.
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: Will be indicated by the teacher in class.
5	Assessment methods and criteria	Written and oral exam, short report.
2) APPLIED BIOLOGY (3 ECTS)		
Teacher: Sandra CECCONI		
1	Course objectives	The objectives of this course are to introduce students to biology and its relationship to other sciences. In this course the fundamental concepts and principles of the study of living organisms, how living cells grow, develop and reproduce are studied. On successful completion of this course, the students should be able to understand the main cellular processes.
2	Course content and	Topics of the module include:

	Learning outcomes (Dublin descriptors)	<p>-DNA organization, replication, repair and transcription; -gene expression; - cell cycle regulation; -mitosis and meiosis; -signal transduction; -apoptosis.</p> <p>After successful completion of this module, the student should</p> <ul style="list-style-type: none"> o have a good knowledge of key regulative processes occurring in prokaryotic and eukaryotic cells o have knowledge and understanding of the regulation of gene expression and of the principal hormone-dependent molecular pathways. o understand and explain the processes of protein synthesis and secretion; the role and structure of plasma membrane and cytoskeleton o demonstrate capacity for reading and understand other texts on related topics. <p>The student should be able to apply information to other modules, and should be able to continue his/her learning about these topics.</p>
3	Prerequisites and learning activities	The student must have a basic knowledge of the principal biological processes of prokaryotic and eukaryotic cells.
4	Teaching methods and language	<p>Lectures Language: Italian Ref. Text books Federici et al., <i>"Medicina di laboratorio"</i>, McGraw-Hill, 2008.</p>
5	Assessment methods and criteria	Written and oral exam

Programme of "METODOLOGIA DEL PROCESSO DI NURSING" "NURSING PROCESS METHODOLOGY"		
<p>The course is composed of four Modules: 1) General Nursing, 2) General Psychology, 3) Radiation Protection, 4) Informatics</p>		
<p>D1324, COMPULSORY First Cycle Degree in OBSTETRICS, 1st Year, 1st Semester</p>		
<p>Number of ECTS credits: 12 (total workload is 300 hours; 1 credit = 25 hours)</p>		
<p>1) GENERAL NURSING (3 ECTS)</p>		
<p>Teacher: Cristina PETRUCCI</p>		
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>Topics of the module include: 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"> o Have acquired knowledge and understanding of the role of the nurse practicing within legal, ethical and professional frameworks. o Be able to apply knowledge and understanding in the planning of nursing care. o Demonstrate an ability to relate observed practice to its underlying theory and describe how certain aspects of nursing/patient care are carried out. o be able to implement nursing care planning starting from the patient assessment and practice within the scope of student nurse role with reference to national and local guidelines. o be able to describe 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. o be able to assess the own knowledge needs and then identify sources and types of information required to enhance further application of knowledge to the practice .
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 Ref. Text books : 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> , Casa Editrice Ambrosiana, 2012-14.
5	Assessment methods and criteria	Written and oral exam, short report.
2) GENERAL PSYCHOLOGY (3 ECTS)		
Teacher: Dina DI GIACOMO		
1	Course objectives	The goal of this course is to provide the fundamentals of Psychology, so that students acquire relational skills.
2	Course content and Learning outcomes (Dublin descriptors)	<p>Topics of the module include: Psychology as a science, methods of study, Mind and Brain, Brain areas, Personality, the Cognitive Capacity.</p> <ul style="list-style-type: none"> - Access principles and principal proponents of psychological theories using accepted methods of scientific inquiry. - 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. - Explain learning theories and cognitive processes. - Describe theories and applications of motivation and emotion. - Demonstrate an understanding of human life span development and discriminate among its major domains. - Identify and describe the major theories of personality, detailing the major disorders, their treatments and/or therapy. - Specify how the individual, a group, and the environment influence social interaction. <p>On successful completion of this module, the student should</p> <ul style="list-style-type: none"> o Acquire knowledge and understanding of the fundamentals of General Psychology: principles and principal proponents of psychological theories using accepted methods of scientific inquiry. o 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. o Apply knowledge and understanding in the comprehension of patients mental world. o be able to identify and describe the major theories of personality, detailing the major disorders and their treatments and/or therapy and implement strategies for the mental health of patients. o Explain learning theories and cognitive processes and describe theories and applications of motivation and emotion. o be able to explain to the patients and to other professionals strategies for the mental health of patients and specify how the individual, a group, and the environment influence social interaction. o be able to assess the own knowledge needs and then to guide own future learning in these topics.
3	Prerequisites and learning activities	The student must have the basis of human sciences.
4	Teaching methods and language	Lectures, team work. Language: Italian Ref. Text books: - C Cacciari, C Papagno: <i>Psicologia Generale e Neuroscienze Cognitive</i> , Il Mulino editore, 2006.
5	Assessment methods and criteria	Written and oral exam, short report.
3) INFORMATICS (3 ECTS)		

Teacher: Pierpaolo VITTORINI		
1	Course objectives	The objective of the course is to introduce learners to the basics of health informatics
2	Course content and Learning outcomes (Dublin descriptors)	<p>Course content</p> <ul style="list-style-type: none"> -Coding systems in computer science and medicine -Introduction to algorithms and examples in computational epidemiology -Computer architectures and operating systems -Introduction to imaging -Networking Internet, telemedicine and PubMed <p>The student will</p> <ul style="list-style-type: none"> o Know the key methods used in health informatics, and how to select among them. o Understand health informatics governance and how it is applied. o Be able to apply relevant information theory to the design and evaluation of healthcare information systems. o Be able to assess and evaluate healthcare information systems. o Be aware of the opportunities and limitations of Information and Communications Technology in improving the quality, cost-effectiveness and efficiency of healthcare delivery o Effectively interface between health information systems developers and healthcare users of those systems to deliver the benefits of ICT in healthcare delivery o Take appropriate action against ethical, legal, data protection and security risks of information technology in healthcare o Be able to up-date knowledge in Health Informatics and present findings in an appropriate scholarly manner.
3	Prerequisites and learning activities	No prerequisites
4	Teaching methods and language	Lectures, team work, exercises, home work Language: Italian Ref. Text books : Vittorini P. <i>"L'informatica per la medicina e la sanità pubblica"</i> 2009. Edizioni L'Una.
5	Assessment methods and criteria	Written exam

4) RADIOPROTECTION TECHNIQUE (3 ECTS)

Teacher: Ernesto DI CESARE		
1	Course objectives	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.
2	Course content and Learning outcomes (Dublin descriptors)	<p>Topics of the module include:</p> <ul style="list-style-type: none"> -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>On successful completion of this module, the student should</p> <ul style="list-style-type: none"> o have profound knowledge of Radioprotection o have knowledge and understanding of radiation risk related o demonstrate skill in Radioprotection and ability to protect himself and patients from radiation o demonstrate capacity for reading and understand other texts on related topics.
3	Prerequisites and learning activities	Not previous specific knowledge is required
4	Teaching methods and language	Teaching methods Lectures Language: Italian/English Ref. Text books E. di Cesare, P Gallicchi, M Midiri <i>"La Radioprotezione Negli Studi Radiologici"</i> , ed

		Gnocchi, 2010
5	Assessment methods and criteria	Written and oral exam

Programme of “FISIOLOGIA, PATOLOGIA GENERALE E MICROBIOLOGIA CLINICA”		
“PHYSIOLOGY, PATHOLOGY AND CLINICAL MICROBIOLOGY”		
This course is composed of two modules: 1) Human Physiology, 2) General Pathology		
D4203, compulsory		
First cycle Degree in OBSTETRICS, 1 st year, 2 nd semester		
Number of ECTS credits: 6 (total workload is 180 hours; 1 credit = 30 hours)		
1) HUMAN PHYSIOLOGY (3 ECTS)		
Teacher: Tiziana Marilena FLORIO		
1	Course objectives	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>Introduction and General Physiology: 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>Cellular Neurophysiology: The fundamental mechanisms of action potential propagation, synaptic transmission, and receptor potential generation</p> <p>Nervous System, Sensory Physiology and Efferent Nervous System: 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>Cardiovascular Physiology: 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>Renal Physiology: 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>Respiratory Physiology: 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"> ○ have knowledge 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. ○ understand the integrated regulation of various body processes among the body organ, ○ understand the means by which the various organ systems of the human body operate and how these functions are integrated ○ demonstrate skill in analysing the effects of environmental variability of the organ systems of the human body, ○ demonstrate capacity to apply the compiled information to clinical or research situations.
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> <p>- L. Zocchi <i>“Principi di Fisiologia”</i>, Edises. 2012.</p>

		- Stanfield, Germann <i>"Fisiologia"</i> , Edises. 2011. - M. Midrio <i>"Compendio di Fisiologia Umana"</i> , Piccin. 2012
5	Assessment methods and criteria	Written exam.
2) GENERAL PATHOLOGY (3 ECTS)		
Teacher: Maria Grazia CIFONE		
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>Topics of the module include: 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"> o know and understand the concept of "cause" in pathology. o Apply knowledge and understanding in the description of the main patterns of pathological cellular processes common to many types of diseases. o be able to recognize the main patterns of pathological cellular processes common to many types of diseases. o be able to illustrate the mechanisms of interaction between external agents and the living organism to patients and other health care professionals. o demonstrate capacities to continue learning by assessing his/her own knowledge needs and then to guide own future learning in these topics.
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.

Programme of "OSTETRICIA GENERALE" "GENERAL OBSTETRICS"		
This course is composed of two modules: 1) Prenatal Medicine , 2) Midwifery profession: history and basic rules.		
D1354, compulsory		
First cycle Degree in OBSTETRICS, 1st year, 2nd semester		
Number of ECTS credits: 6 (total workload is 180 hours; 1 credit = 30 hours)		
1) PRENATAL MEDICINE (3 ECTS)		
Teacher: Tiziana Marilena FLORIO		
1	Course objectives	The goal of this course is to enable the students achieve clinical competence in managing common and important clinical problems that women may present within the discipline of obstetrics and gynecology, especially during the prenatal period. Students should have the opportunity to: participate in the management of labour and conduct a normal vaginal delivery.
2	Course content and Learning outcomes (Dublin descriptors)	<p>Topics of the module include:</p> <ul style="list-style-type: none"> - Female reproductive system: anatomy, physiology and embryology. -Pregnancy diagnosis. - Abortion, unwanted pregnancy and therapeutic abortion. - First trimester or early second trimester complications. - Fetal well-being issues: Genetic screening and prenatal diagnosis, Small/large for gestation age fetus, Management of Rh negative status, Fetal demise. - Obstructive labour. - Spontaneous vaginal delivery and assisted birth (vacuum, forceps, Caesarean delivery). - Fetal heart rate tracing interpretation – normal and abnormal tracings. - Examination of placenta.

		<p>- Postpartum care and complications: Postpartum hemorrhage, Postpartum fever, Postpartum mood disorder, Obstetrical emergencies, Obstetrical ultrasound.</p> <p>On successful completion of this module, the student should:</p> <ul style="list-style-type: none"> o Understand the physiology of the female pelvic anatomy with an emphasis on reproductive development and changes in endocrinology across a woman's lifespan. o Acquire a comprehensive understanding of primary and preventive care for women across the lifespan with appropriate screening tests, exams, and treatments at each stage. o Demonstrate the initial development of the clinical skills 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. o Acquire knowledge about Ob/Gyn conditions and diseases. o List and explain the purpose of laboratory tests completed during the first prenatal visit. o Demonstrate the ability to assess the health of the mother and fetus health during pregnancy and labor and demonstrate the proper technique for delivering the baby. o Know surgical and non-surgical methods of pregnancy termination and be able to provide o non-directive counseling regarding pregnancy options. Use a respectful non-aggressive manner in counseling patients regarding life style choices that contribute to optimal health. o Demonstrate professionalism by interacting respectfully with the healthcare team, patients and families regardless of differing beliefs, culture or status.
3	Prerequisites and learning activities	The student must know female physiology, anatomy and pathology, in particular physiologic and pathologic pregnancy.
4	Teaching methods and language	<p>Lectures, team work, home work, tutorials, simulations.</p> <p>Language: Italian</p> <p>Ref. Text books:</p> <p>-Pescetto-De Cecco-Pecorari-Ragni, <i>Ginecologia e Ostetricia (Vol. 1. Vol. 2)</i>, Società Editrice Universo, 2009.</p> <p>-Di Renzo, <i>Trattato di Ginecologia e Ostetricia (Vol. 1. Vol. 2)</i>, Verduci Editore 2009.</p> <p>-Colacurci - Cappadona - Caserta - Del Bo - Marchesoni - Piga - Vicario - Zavarise, <i>Ostetricia e Ginecologia. Per i Corsi di Laurea in Ostetricia</i>, Edizioni Sorbona, 2013</p>
5	Assessment methods and criteria	Oral exam.
2) MIDWIFERY PROFESSION: HISTORY AND BASIC RULES (3 ECTS)		
Teacher: Maria Grazia CIFONE		
1	Course objectives	The course aims to raise awareness of the history of the profession of midwifery and the reference standard.
2	Course content and Learning outcomes (Dublin descriptors)	<p>Topics of the module include:</p> <ul style="list-style-type: none"> - origins of midwifery - the training - the professional profile of midwives - the profession: Laws and regulations - code of Conduct - professional secrecy - type of performance midwife <p>On successful completion of this module, the student should be able to:</p> <ul style="list-style-type: none"> o Demonstrate understanding and knowledge of the role and professional standards governing the practice of the midwife; o demonstrate an understanding of the legislation related to Human rights, equality and diversity and access to maternity records; o Demonstrates the ability to maintain confidentiality of written and verbal information acquired in a professional capacity; o Demonstrates knowledge and understanding of local guidelines and policies relating to care delivery for women and babies; o Develop confidence and competency in a range of skills; o Demonstrate an in depth understanding of the practical role of the midwife as part of

		the wider social institution of medicine and health.
3	Prerequisites and learning activities	The student must have the knowledge of the health benefits of competence and regulations that regulate the profession.
4	Teaching methods and language	Lecture and exercises. Language: Italian Ref. Text books: Teacher's Notes
5	Assessment methods and criteria	Written and oral exam.

Programme of “TECNICHE DI SOMMINISTRAZIONE DEI FARMACI” “TECHNIQUES FOR DRUGS ADMINISTRATION”		
This course is composed of three modules: 1) Drugs Administration, 2) Drugs and pregnancy		
D1404, COMPULSORY		
First Cycle Degree in OBSTETRICS, 1st Year, 2nd Semester		
Number of ECTS credits: 10 (workload is 300 hours; 1 credit = 30 hours)		
1) DRUGS ADMINISTRATION (3 ECTS)		
Teacher: Massimiliano FRATTALI		
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)	Topics of the module include: 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. On successful completion of this module, the students should: <ul style="list-style-type: none"> ○ have the knowledge (indications, contraindications, dose, interactions, adverse effects, route and knowledge of how to administer drug safely) of the administration process; ○ have skill to assess the appropriateness of the medication for a particular patient and capacities to monitor the patients while administering the medication paying attention to their safety; ○ be able to implement strategies for safety drugs administration and storage. ○ be able to explain to the patients and to other professionals the right way for the drugs administration and storage. ○ have capacities to assess their own knowledge needs and read and understand the literature on the field for a continuous learning.
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 Ref. Text books: -R.F. Craven, <i>Principi Fondamentali Dell'assistenza Infermieristica</i> . Casa Editrice Ambrosiana. Quinta edizione. 2013. -Giuseppina Ledonne, Sabrina Tolomeo, <i>Calcoli e Dosaggi Farmacologici</i> , Casa Editrice Ambrosiana. Edizione, 2013.
5	Assessment methods and criteria	Written and oral exam, short report.
2) DRUGS AND PREGNANCY (3 ECTS)		
Teacher: Maria COLACI		
1	Course objectives and learning outcomes	The aim of this module is to develop students' knowledge and understanding of the implications of drug therapy for individuals in the context of midwifery practice.
2	Course content and Learning outcomes (Dublin	Course Content: This module is focused on the knowledge development of student midwives in relation to

	descriptors)	<p>pharmacology within the clinical setting. Their responsibility for drug administration and monitoring effects on the woman, foetus and baby will be emphasized. This module will provide student midwives with the knowledge and competence to understand the actions, side effects and contraindications of pharmacological and non pharmacological preparations in pregnancy and childbirth. In particular:</p> <ul style="list-style-type: none"> -Principles of drug therapy. -Role of various health professionals. -Principles of safe drug administration. -Drug groups and their application to midwifery management of patients with a variety of health problems. <p>An overview of the principles of medication safety and an introduction to the evidence underpinning safe medication management.</p> <p>On successful completion of this module, students should be able to:</p> <ul style="list-style-type: none"> o Explain the principles that underpin midwifery practice in drug therapy. o Discuss the legal and ethical issues that underpin midwifery practice in drug therapy. o Demonstrate knowledge of safe administration of prescribed medicines to patients. o Relate major drug groups to the midwifery management of patients with a variety of health problems. o Discuss the implications of drug therapy for patients. o Describe methods/ mechanisms that can be used to enhance medication safety. o Demonstrate the ability to calculate medication dosage as per prescription.
3	Prerequisites and learning activities	Prerequisites: none
4	Teaching methods and language	Lectures, Group Work Language: Italian Ref. Text books: Teacher's Notes
5	Assessment methods and criteria	Oral exam

<p>Programme of "SCIENZE UMANE E PSICOPEDAGOGICHE" "HUMAN AND PSYCHO-PEDAGOGICAL SCIENCES"</p>		
<p>This course is composed of two modules: 1) History of medicine 2) Clinical psychology</p>		
<p>D2362, compulsory First Cycle Degree in OBSTETRICS, 2ND YEAR, 1ST SEMESTER</p>		
<p>Number of ECTS credits: 6 (total workload is 180 hours; 1 credit = 30 hours)</p>		
<p>1) HISTORY OF MEDICINE (3 ECTS)</p>		
<p>Teacher: Ferdinando DI ORIO</p>		
1	Course objectives	<p>The aim is to illustrate the history of medicine from the ancient ages to the present day. The first half the course regards the Reflection on the Scientific Method and The main rules of the method, the second half covers the history of medicine over more than two millennia.</p>
2	Course content and Learning outcomes (Dublin descriptors)	<p>TOPICS OF THE MODULE INCLUDE:</p> <ul style="list-style-type: none"> -The Renaissance and the philosophy of nature. The institutions and the images of science. -The birth of the University. The Academies. Astrology and alchemy. -The astronomical revolution. Copernicus: the motion of the earth and the centrality of the sun. Tycho Brahe, Kepler. Galileo Galilei, the method of science. Faith and the autonomy of reason. The condemnation of Copernicus. The destruction of Aristotelian cosmology. Galileo Galilei: the freedom of science and the authority of the scriptures. The scientific revolution from Copernicus to Newton. The lack of scientific revolution in medicine. The role of the Catholic Church in the development of science. Andreas Vesalius and modern human anatomy. -A brief history of medicine until 1800 : The medicine in the ancient ages. Hippocrates of Kos, the medicine in the middle ages , the renaissance of Western medicine , the theory of the Galen humours, The monastic medicine, the Arabic doctor. -William Harvey and the circulation of the blood. -Medical science and clinical practice. The development of clinical pathophysiology . The doctor of the poor, the medical workers . Edward Jenner and vaccination.

		<p>-Epidemics in the century 19th in Italy and Abruzzo: cholera morbus, typhus fever , intermittent fever, etc. The unaware doctor. The nineteenth century and the bacteriological revolution .</p> <p>-The birth of experimental medicine between positivism and evolutionism. Experimental medicine: Bernard, Tommasi, Darwin, etc.</p> <p>-Training medical colleges : Medical education and scientific research at the dawn of Italian unification.</p> <p>-The new surgery. Wilhelm Roentgen. X-ray computed tomography. Alexander Fleming and antibiotics. The diagnostic tools. The politic doctor. The team doctor . The current doctor. Watson and Crick. The doctor of the future.</p> <p>On completion of this module, the student should:</p> <ul style="list-style-type: none"> o have profound knowledge of the content and meaning of biomedical ideas of our time through the history of their evolution. o Understand the fundamental concepts of thought-leadership of the medical history in a global vision of the past and o Identify the influences on the development of medical thought and the impact of this in other areas of knowledge.
3	Prerequisites and learning activities	The student must have the basic notions of history and philosophy as acquired in the secondary School.
4	Teaching methods and language	Lectures and exercises. Language: Italian -Kuhn T., <i>La struttura delle rivoluzioni scientifiche</i> , Einaudi 2009 -Armocida G. Zanobio B., <i>Storia della Medicina</i> , Masson 2° Edizione, Milano
5	Assessment methods and criteria	Written and oral exam

2) PROGRAMME OF CLINICAL PSYCHOLOGY (3 ECTS)

Teacher: Domenico PASSAFIUME		
1	Course objectives	<p>The goal of this course is to provide the motivations, definitions and techniques for understand the behavior of patients before and after the delivery, the cognitive deficits that could occur in the baby.</p> <p>On successful completion of this module, the student should understand the fundamental concepts of Clinical Psychology, and should be aware of the potential disturbances on cognitive, behavior and emotion domain which he may face during his work.</p>
2	Course content and Learning outcomes Dublin descriptors	<p>Topics of the module include:</p> <p>-<i>Psychology and science</i>: Methods: observation, experiment, single case examination.</p> <p>-<i>Theory of Personality</i>: Psychoanalysis, Behaviorism</p> <p>-<i>Neuropsychology</i>: Brain functions, hemispheric differentiation, cognitive abilities</p> <p>-<i>Clinical Neuropsychology</i>: Deficits of learning, of language, of memory, of space perception, of emotion.</p> <p>On successful completion of this module, the student should</p> <ul style="list-style-type: none"> o have good knowledge of basic techniques in Psychology o have knowledge and understanding of the consequence of organic or functional brain disease o understand and explain the meaning of complex behavior o understand the fundamental concepts of brain – behavior relations o demonstrate skill in behavior observation, ability to conceive a response to inappropriate behaviour. o demonstrate capacity for reading and understand other texts on related topics.
3	Prerequisites and learning activities	The student must know the basic notions of neurophysiology (brain, neurons, synapses)
4	Teaching methods and language	Lectures and exercises. Language: Italian Ref. Text books M. Fioravanti: <i>“Psicologia Clinica per I professionisti della sanità”</i> , McGraw-Hill, Milano 2009
5	Assessment methods	Written exam (short dissertation)

<p style="text-align: center;">Programme of “GINECOLOGIA ED OSTETRICIA” “GYNAECOLOGY AND OBSTETRICS”</p>		
<p>This course is composed of two modules: 1) Gynaecology and Obstetrics 2) Sexology and contraception</p>		
<p>D1422, compulsory First Cycle Degree in OBSTETRICS, 2nd Year, 1st Semester</p>		
<p style="text-align: center;">Number of ECTS credits: 6 (workload is 180 hours; 1 credit = 30 hours)</p>		
<p style="text-align: center;">GYNAECOLOGY AND OBSTETRICS (3 ECTS)</p>		
<p>Teacher: Gaspare CARTA</p>		
1	Course objectives	<p>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.</p>
2	Course content and Learning outcomes (Dublin descriptors)	<p>Topics of the module include:</p> <ul style="list-style-type: none"> - Menopause. - Endometriosis. - Trophoblastic disease. - Urinary incontinence. - Urogenital prolapse/disorder. - Shoulder dystocia. - Pregnancy diagnosis. - Diabetes in pregnancy. - Preterm premature rupture of membranes. - Preterm birth. - Assisted birth (vacuum, forceps, Caesarean delivery). - Oncological diseases: Vulvar cancer, Cervical cancer, Ovarian cancer, Endometrial lesions. <p>On successful completion of this module, the student should:</p> <ul style="list-style-type: none"> o Understand the physiology of the female pelvic anatomy with an emphasis on reproductive development and changes in endocrinology across a woman's lifespan. o Perform an assessment of symptoms and physical findings associated with hypoestrogenism and the management of these menopausal/perimenopausal symptoms. - Demonstrate the initial development of the clinical skills 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. o Demonstrate the ability to assess the health of the mother and fetus health during pregnancy and labor and demonstrate the proper technique for delivering the baby. o Describe symptoms and physical findings in patients with endometriosis. o Provide a preliminary assessment of sexual concerns. Take a sexual history. Knowledge of the female sexual response. Knowledge of female sexual dysfunction. o Cite the risk factors for preterm labor and its signs and symptoms. o Cite the risk factors for premature rupture of membranes and describe the signs, symptoms, and diagnostic methods to confirm rupture of membranes. o Discuss reproductive cancers. List risk factors for cervical, endometrial, and ovarian cancers. o Describe symptoms and physical findings of a patient with endometrial cancer. o Describe symptoms and physical findings of a patient with ovarian cancer. o Outline the proper management of a patient with postmenopausal bleeding. o Describe the disorders and symptoms of urinary incontinence and lab tests available to determine cause. o Explain the medical and surgical treatment options for common forms of urinary incontinence. o Discuss the physical and social impact of urinary continence on the patient.
3	Prerequisites and learning activities	<p>The student must know female physiology, anatomy, pathology, urology and oncology, in particular physiologic and pathologic pregnancy.</p>
4	Teaching methods and language	<p>Lectures, team work, home work, tutorials, simulations.</p> <p>Language: Italian</p> <p>Ref. Text books:</p> <p>-Colacurci - Cappadona - Caserta - Del Bo - Marchesoni - Piga - Vicario - Zavarise, <i>Ostetricia e Ginecologia. Per i Corsi di Laurea in Ostetricia</i>, Edizioni Sorbona, 2013</p>

5	Assessment methods and criteria	Oral exam
SEXOLOGY AND CONTRACEPTION (3 ECTS)		
Teacher: Fiorella VULPIANI		
1	Course objectives	The goal of this course is to enable the students to acquire basic knowledge of sexology and methods of contraception.
2	Course content and Learning outcomes (Dublin descriptors)	<p>Topics of the module include:</p> <ul style="list-style-type: none"> -contraception, - prenatal diagnosis, - research, problem solving, - IVG Law 194/78; - care process. <p>On successful completion of this module, the student should:</p> <ul style="list-style-type: none"> o have profound knowledge of natural and chemical methods of contraception; o define the various features of human sexuality; o describe the development and list the possible risk factors, plan appropriate welfare benefits o be able to make education and training to women; o know the elements of human sexuality, and the manifestations of sexuality in the early stages of life; o be aware of the legislation and Guidelines.
3	Prerequisites and learning activities	The student must know female physiology, anatomy, pathology, urology and oncology.
4	Teaching methods and language	<p>Lecture and exercises</p> <p>Language: Italian</p> <p>Ref. Text books:</p> <ul style="list-style-type: none"> -Pescetto-De Cecco-Pecorari-Ragni, <i>Ginecologia e Ostetricia (Vol. 1. Vol. 2)</i>, Società Editrice Universo 2009. -Colacurci - Cappadona - Caserta - Del Bo - Marchesoni - Piga - Vicario - Zavarise, <i>Ostetricia e Ginecologia. Per i Corsi di Laurea in Ostetricia</i>, Edizioni Sorbona, 2013
5	Assessment methods and criteria	Written and oral exam.

Programme of "ANESTESIOLOGIA E RIANIMAZIONE"		
"ANAESTHESIA AND RESUSCITATION"		
This course is composed of two modules: 1) Anaesthesia and Resuscitation, 2) Anaesthesia for childbirth and childbirth analgesia		
D3907, COMPULSORY		
First Cycle Degree in OBSTETRICS, 2nd Year, 2^{1st} Semester		
Number of ECTS credits: 7 (total workload is 210 hours; 1 credit = 30 hours)		
1) ANAESTHESIA AND RESUSCITATION (3 ECTS)		
Teacher: Alba PIROLI		
1	Course objectives	<p>The goal of this course is to provide the definitions and principal techniques about general and local anaesthesia in obstetrics and labor pain analgesia.</p> <p>The programme is designed to teach the knowledge and skills needed to provide Basic Life Support (BLS) to adult and child (AHA).</p>
2	Course content and Learning outcomes (Dublin descriptors)	<p>Topics of the module include:</p> <ul style="list-style-type: none"> -Local Anesthetics: mode of action, clinical use, toxicity -Central Neuraxial Blocks: <ul style="list-style-type: none"> - Spinal block: Indications, applications and side effects - Epidural block: Indications, applications and side effects -General Anesthetics: mode of action, clinical use, side effects -Neuromuscular blocking agents -Opioids -General Anesthesia -Intraoperative monitoring

		<p>-Anesthesia for cesarean section -Labor pain analgesia -Basic Life Support (BLS)</p> <p>On successful completion of this module, the students should:</p> <ul style="list-style-type: none"> o have knowledge of crucial obstetric role in labor pain analgesia o have knowledge of anesthesia techniques used in obstetrics o understand finally the entity, severity, priority of the emergency o demonstrate skill in noninvasive airway management and ability to perform chest compression, and to use AED
3	Prerequisites and learning activities	The student must know some principles of Anatomy, Cardiovascular and Respiratory Physiology and Pharmacology
4	Teaching methods and language	<p>Frontal lectures and practical lessons in BLS</p> <p>Language: Italian</p> <p>Ref. Text books: Teacher's Notes</p>
5	Assessment methods and criteria	Written exam. Optional further oral questions, on the most important issues, to improve evaluation
2) ANAESTHESIA FOR CHILDBIRTH AND CHILDBIRTH ANALGESIA (4 ECTS)		
Teacher: Rosanna TIBERI		
1	Course objectives and learning outcomes	The goal of this course is to provide to the future midwives the fundamental concepts and professional skills of midwifery including labor preparation, delivery assistance and puerperium assistance.
2	Course content and Learning outcomes (Dublin descriptors)	<p>Course Content:</p> <ul style="list-style-type: none"> -Psychoprophylaxis in Obstetrics -Preparation of labor -The fundamental tools of the delivery room -The drugs used in Gynecology and Obstetrics -Assistance of delivery -Analgesia -Puerperium -Breast feeding <p>On successful completion of this module, students should be able to:</p> <ul style="list-style-type: none"> o Understand why providing analgesia is important; o Describe the physiological response to pain; o Know and understand the advantages and disadvantages of key routes of administration of analgesic drugs; o List the benefits and risks involved in the use of common analgesic drug; o Critically reflect on professional, legal and ethical issues related to anaesthetic & recovery care; o Apply knowledge of pharmacology to patient care during anaesthesia & recovery phase; o Demonstrate critical reflection skills in the midwifery profession.
3	Prerequisites and learning activities	The student must know the basics of obstetrics and gynecology needed for the future midwifery work activity.
4	Teaching methods and language	<p>Lectures, team work, exercises, home work</p> <p>Language: Italian</p> <p>Ref. Text books: Pescetto-De Cecco-Pecorari-Ragni, <i>Ginecologia e Ostetricia (Vol. 1. Vol. 2)</i>, Società Editrice Universo, 2005.</p>
5	Assessment methods and criteria	Written and Oral exam.

Programme of "IGIENE, SICUREZZA ED ORGANIZZAZIONE PROFESSIONALE"
"HYGIENE, SAFETY AND PROFESSIONAL ORGANIZATION"

This course is composed of two modules: 1) General and Applied Hygiene, 2) Rights in the work place

D4208 , COMPULSORY

First Cycle Degree in OBSTETRICS, 2 nd Year, 2 nd Semester		
Number of ECTS credits: 6 (total workload is 180 hours; 1 credit = 30 hours)		
1) GENERAL AND APPLIED HYGIENE (3 ECTS)		
Teacher: Stefano NECOZIONE		
1	Course objectives	The goal of this course is to allow students to know and understand the tools and the basic methodology in the prevention of infectious and non infectious diseases in hospital and non-hospital setting and to develop and use their own and specific concepts of hygiene. Students will be able to develop self-analysis of certain health risk factors, prevention strategies both individual and collective, and of interventions to promote the health and safety of health care workers and users.
2	Course content and Learning outcomes (Dublin descriptors)	<p>Topics of the module include:</p> <ul style="list-style-type: none"> -Concepts of Health and Illness and Aetiology of Illness -Principles and Practice of Health Promotion -Epidemiology: general aspects. epidemiology measures, types of Epidemiologic Study -Aims and methods of prevention. primary prevention, secondary prevention (screening), tertiary prevention and rehabilitation -General prophylaxis for infectious diseases; hospital hygiene; Hospital infections. -General prevention of non infectious diseases. <p>On successful completion of this Module the students are expected to:</p> <ul style="list-style-type: none"> o have acquired knowledge of the determinant factors of health and disease; o know the fundamental means to prevent the main infectious and non-infectious diseases; o be able to apply knowledge to practice both in the care of patients and in the management of hospital departments. o be able to apply the legislation about prevention and management of risks; o be able to identify infection risk factors and to apply the proper methodology for immunization; o have developed the capacity to control potential hazards at home and in the workplace; o demonstrate capacity to read and understand scientific literature in the field for the continuous up-dating of their knowledge.
3	Prerequisites and learning activities	The student should have basic knowledge of microbiology
4	Teaching methods and language	Lectures, team work, exercises, home work, report, Language: Italian Ref. Text books: Barbuti, Belevi, Fara " <i>Igiene</i> ", Monduzzi Ed. , 2002.
5	Assessment methods and criteria	Written and Oral exam.
2) RIGHTS IN THE WORKPLACE (3 ECTS)		
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>Topics of the module include:</p> <ul style="list-style-type: none"> -The constitution of subordinate work: placement of labor. -The subordination, the autonomous work, the special work: distinction between subordination and autonomy; the collaboration; term contract. -The professional classification: classification and tasks. -The wages: principles constitutionally. -The regulation of safety in the work place: article 2087 Civil code; mobbing -Working rights: time, holiday, day off, festivity. -The obligations: diligence and fidelity. -The leading and disciplinary power: proceedings; sanctions; protections of workers; disciplinary dismissal; -The individual dismissal: justification of the dismissal; scope and protections. <p>On successful completion of this module, the student should:</p> <ul style="list-style-type: none"> o have profound knowledge of the role of labor law in the State system;

		<ul style="list-style-type: none"> ○ have knowledge and understanding of principal “phases” of subordinate work; ○ understand and explain the meaning of powers of the employer; ○ understand the fundamental concepts of forms of remuneration; obligations of the employee; termination of the employment relationship. ○ demonstrate skill in legislative reasoning and ability to conceive a proof. ○ demonstrate capacity for reading and understand other texts on related topics.
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 Ref. Text books: - Pietro Lambertucci, <i>Lineamenti di diritto del lavoro</i> , Libreria universitaria Benedetti, L'Aquila, 2008. - Handouts distributed by the teacher
5	Assessment methods and criteria	Oral exam.

Programme of “ASSISTENZA E CURE IN AREA MATERNO-INFANTILE” “CARE AND TREATMENT IN MATERNAL AND CHILD AREA”		
This course is composed of two modules: 1) Obstetrics and Gynecology, 2) Paediatrics and Neonatology		
D1466 , Compulsory First Cycle Degree in NURSING, 2nd year, 2nd semester		
Number of ECTS credits: 6 (workload is 180 hours; 1 credit = 30 hours)		
1) OBSTETRICS AND GYNAECOLOGY (3 ECTS)		
Teacher: Gaspare CARTA		
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>Topics of the module include:</p> <ul style="list-style-type: none"> - Placenta praevia.- Preterm premature rupture of membranes. - Preterm birth. - Ectopic pregnancy. - Pregnancy diagnosis. - Labour progression – normal and abnormal. Vaginal 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>On successful completion of this module, the student should:</p> <ul style="list-style-type: none"> ○ Perform an assessment of symptoms and physical findings associated with hypoestrogenism and the management of these menopausal/perimenopausal symptoms. ○ Demonstrate the initial development of the clinical skills 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. ○ Demonstrate the ability to assess the health of the mother and fetus health during pregnancy and labor and demonstrate the proper technique for delivering the baby. ○ Know how to diagnose pregnancy and determine gestational age. ○ Know when to perform diagnostic studies during pregnancy and understand the results. ○ Know signs and symptoms of labor. ○ Know the three stages of labor and recognize common abnormalities. ○ Describe the steps of a vaginal delivery. ○ Cite the risk factors for preterm labor and its signs and symptoms. ○ Cite the risk factors for premature rupture of membranes and describe the signs, symptoms, and diagnostic methods to confirm rupture of membranes. ○ Discuss reproductive cancers. List risk factors for cervical, endometrial, and ovarian cancers. ○ Describe symptoms and physical findings of a patient with endometrial cancer and with ovarian cancer.

		<ul style="list-style-type: none"> ○ List the factors predisposing patients to ectopic pregnancy and explain the diagnostic tests used to confirm ectopic pregnancy. ○ Discuss treatment options for ectopic pregnancy.
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. Language: Italian Ref. Text books: -Caruso, <i>Manuale di Ginecologia e Ostetricia</i> , CIC Edizioni Internazionali II edizione 2012. -Colacurci - Cappadona - Caserta - Del Bo - Marchesoni - Piga - Vicario - Zavarise., <i>Ostetricia e Ginecologia. Per i Corsi di Laurea in Ostetricia</i> , Edizioni Sorbona, 2013
5	Assessment methods and criteria	Oral exam.

2) PAEDIATRICS AND NEONATOLOGY (3 ECTS)

Teacher: Giovanni FARELLO		
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>Topics of the module include: 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"> ○ know and understand the fundamentals of Paediatrics and neonatology. ○ Apply knowledge and understanding in the recognition of the main problems in the care of child patients. ○ be able to implement nursing care planning starting from the newborn and child patient diagnosis. ○ be able to explain 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. ○ be able to assess the own knowledge needs and then to guide own future learning in these topics
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: Teacher's Notes
5	Assessment methods and criteria	Written and oral exam, short report.

Programme of "FISIOPATOLOGIA GINECOLOGICA" "GYNEACOLOGICAL PHYSIOPATHOLOGY"

This course is composed of three modules:

1) Oncological gynaecology 2) Diagnostic gynecological 3) Assistance in gynecological oncology

D4211, Compulsory

First Cycle Degree in OBSTETRICS, 3rd year, 1st semester

Number of ECTS credits: 6 (workload is 180 hours; 1 credit = 30 hours)

ONCOLOGICAL GYNAECOLOGY (2 ECTS)

Teacher: Leonardo DI STEFANO		
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, especially oncological and infectious diseases.
2	Course content and Learning outcomes (Dublin descriptors)	<p>Topics of the module include:</p> <ul style="list-style-type: none"> - Female reproductive system: anatomy, physiology and pathology. - Pap test counseling. - Vulvar lesion. - Adnexal mass and/or ovarian cyst. - Vaginal speculum insertion. - Cultures of vagina and cervix. - Oncological diseases: Vulvar cancer, Cervical cancer, Ovarian cancer, Endometrial lesions. <p>On successful completion of this module, the student should:</p> <ul style="list-style-type: none"> o be able to properly collect a Pap smear and microbiologic cultures, provide an explanation to the patient regarding the purpose of the test, understand the results and develop a treatment plan based on the results. o understand the physiology of the female pelvic anatomy with an emphasis on reproductive development and changes in endocrinology across a woman's lifespan. o Acquire a comprehensive understanding of primary and preventive care for women across the lifespan with appropriate screening tests, exams, and treatments at each stage. o Demonstrate the initial development of the clinical skills 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. o Understand common vaginal and vulvar disorders and the appropriate diagnostic and management options. o -Be able to interpret a wet mount. Vaginitis. STDs: gonorrhea, Chlamydia, herpes simplex virus, human papillomavirus, human immunodeficiency virus and hepatitis B virus infection. UTIs. o Discuss reproductive cancers. List risk factors for cervical, endometrial, and ovarian cancers. o Describe symptoms and physical findings of a patient with endometrial cancer. o Describe symptoms and physical findings of a patient with ovarian cancer. o Outline the proper management of a patient with postmenopausal bleeding.
3	Prerequisites and learning activities	The student must know female physiology, anatomy, pathology, microbiology and oncology.
4	Teaching methods and language	Lectures, team work, home work, tutorials, simulations. Language: Italian Ref. Text books: -Di Renzo, <i>Trattato di Ginecologia e Ostetricia (Vol. 1. Vol. 2)</i> , Verduci Editore, 2009.
5	Assessment methods and criteria	Oral exam
2) DIAGNOSTIC GYNECOLOGICAL (1 ECTS)		
Teacher: Felice PATACCHIOLA		
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, especially during postnatal period and puerperium
2	Course content and Learning outcomes (Dublin descriptors)	<p>Topics of the module include:</p> <ul style="list-style-type: none"> - Infectious diseases in pregnancy: Toxoplasmosis, Rubella, Cytomegalovirus, Herpes virus (TORCH) - Placental tumors - Tumors and pregnancy - Thrombophilia in pregnancy <p>On successful completion of this module, the student should:</p> <ul style="list-style-type: none"> o Understand the physiology of the female pelvic anatomy with an emphasis on reproductive development and changes in endocrinology across a woman's lifespan. o Demonstrate the initial development of the clinical skills required for women's routine

		<p>health maintenance including: taking an effective history and physical, developing a differential diagnosis, and developing a management plan for common disorders and conditions.</p> <ul style="list-style-type: none"> ○ Understand the basic physiologic adjustments that accompany normal gestation. Maternal anatomic changes associated with pregnancy. Effect of pregnancy on common laboratory test results. ○ Understand embryonic and fetal development, especially what does and does not affect it. ○ Describe how pregnancy affects certain medical conditions, and how certain medical conditions affect pregnancy.
3	Prerequisites and learning activities	The student must know female physiology, anatomy, pathology, oncology, physiologic and pathologic pregnancy.
4	Teaching methods and language	<p>Lectures, team work, home work, tutorials, simulations.</p> <p>Language: Italian</p> <p>Ref. Text books:</p> <p>-Di Renzo, <i>Trattato di Ginecologia e Ostetricia (Vol. 1. Vol. 2)</i>, Verduci Editore, 2009.</p>
5	Assessment methods and criteria	Written and oral exam, short report.
3) ASSISTANCE IN GYNECOLOGICAL ONCOLOGY (3 ECTS)		
Teacher: Maria Addolorata DE SANCTIS		
1	Course objectives	The course aims to train students to provide welfare benefits to women suffering from cancer.
2	Course content and Learning outcomes (Dublin descriptors)	<p>Course Content:</p> <ul style="list-style-type: none"> -Tumour prevention of female apparatus: -Risk factors for the cervical carcinoma -Prevention and sanitary education -Preventive diagnosis and screening plan for papilloma virus -Execution of pap-test -Interpretation and classification of the cytological preparation according to the TBS -Endometrial cancer prevention -Vagina, vulva, and ovarian cancer prevention -Brest cancer prevention, self-testing technique <p>At the end of the Module the students should:</p> <ul style="list-style-type: none"> ○ Demonstrate a broad knowledge of the pattern of presentation of gynaecological malignancies. ○ Demonstrate a knowledge of investigations required to confirm diagnosis of gynaecological malignancy ○ Understand the indications and limitations of screening for gynaecological cancer :f Cervix , Ovary (general and high risk populations), Endometrium, (HNPC) , including side effects and complications of treatment. ○ be able to take an appropriate history: • Symptoms and comorbidity, • Family history and genetic susceptibility, and perform an appropriate examination. ○ be able to counsel patients regarding a diagnosis of gynaecological malignancy and the subsequent management. ○ Have acquired knowledge of care pathways for suspected gynaecological cancer ○ Be able to communicate to patients' results of investigations and treatment including prognosis. ○ Be able to liaise with clinical oncology, medical oncology and palliative care colleagues when appropriate.
3	Prerequisites and learning activities	The student must know female physiology, anatomy, pathology, oncology, physiologic and pathologic pregnancy
4	Teaching methods and language	<p>Lectures, Group Work</p> <p>Language: Italian</p> <p>Ref. Text books:</p> <p>-Pescetto-De Cecco-Pecorari-Ragni, <i>Ginecologia e Ostetricia (Vol. 1. Vol. 2)</i>, Società Editrice Universo, 2009.</p>
5	Assessment methods and criteria	Written exam

**Programme of “ATTIVITÀ FORMATIVE CLINICHE E INTEGRATIVE”
“INTEGRATIVE AND FORMATIVE CLINICAL ACTIVITIES”**

This course is composed of three modules:

1) Oral diseases 2) Clinical activities in dermatology and venereology 3) Diseases of the musculoskeletal system

D4214, compulsory

First cycle Degree in OBSTETRICS, 3th year, 1st semester

Number of ECTS credits: 8 (workload is 240 hours; 1 credit = 30 hours)

1) ORAL DISEASES (3 ECTS)

Teacher: Mario GIANNONI

1	Course objectives	The student must know the main oral diseases.
2	Course content and Learning outcomes (Dublin descriptors)	<p>Topics of the module include: Learning the benefits of cooperation between midwife and dental hygienist in the prevention and management of dental and pathology of women, with particular reference to the period of pregnancy.</p> <p>On successful completion of this module, the student should:</p> <ul style="list-style-type: none"> ○ have good knowledge of oral Diseases ○ have knowledge dental caries, halitosis, dental erosions and periodontal disease ○ be able to describe the different types of periodontal disease and the different types of periodontal treatment ○ be able to describe the bidirectional relationship that exists between periodontal disease and diabetes connected with pregnancy ○ demonstrate skill and ability to patients managements.
3	Prerequisites and learning activities	The student must know the main aspects of the anatomy and physiology of the oral cavity
4	Teaching methods and language	<p>Oral lessons, presentation.</p> <p>Language: Italian and scientific English</p> <p>Ref. Text Books: Teacher's Notes</p>
5	Assessment methods and criteria	Oral exam.

2) CLINICAL ACTIVITIES IN DERMATOLOGY AND VENEREOLOGY (3 ECTS)

Teacher: Ketty PERIS

1	Course objectives	To provide the basic concepts of dermatological disease with particular interest for those involving the field of obstetrics and gynecology
2	Course content and Learning outcomes (Dublin descriptors)	<p>Topics of the Module include: -Definition of the main dermatological disease categories that may affect a woman, -General pathology : histology, inflammation pathology and types, -Mechanisms underlying these disorders (etiology, pathogenesis), -Granulomas, Neoplasia, Tumours of epithelium tissue</p> <p>At the end of the course the students is expected to:</p> <ul style="list-style-type: none"> ○ Have Acquired knowledge and understanding of the basic dermatology and type of skin lesions. ○ Be able to apply knowledge and understanding when a cutaneous disease is present and affects patient, through collection of medical history and patient's exam. ○ Be able to identify patient's needs and plan nursing care during and after pregnancy. ○ Be able to successfully explain and fulfill the objectives of nursing care plans to the patients and to other professionals. ○ Have capacities to continue learning, be able to assess his/her knowledge needs and have the skill to further explore a specific topic.
3	Prerequisites and learning activities	The student should have the basic principles of inflammation, infection and neoplastic processes.
4	Teaching methods and language	<p>Lectures, team work, exercises, home work</p> <p>Language: Italian</p>

		Ref. Text books: i) <i>Manuale di Dermatologia Medica e Chirurgica</i> , Tullio Cainelli, Alberto Giannetti, Alfredo Rebora. McGraw-Hill, 2008. ii) <i>Dermatologia e Venereologia</i> , P.L. Amerio, M.G. Bernengo, S. Calvieri, S. Chimenti, M. Pippione, M. Aricò, N. Aste, G. Borroni, G. Leigheb, G. Micali, E. Nunzi, A.M. Offidani, A. Tulli, Casa Editrice Minerva Medica, 2009.
5	Assessment methods and criteria	Written and oral examination, in-course tests
3) DISEASES OF THE MUSCULOSKELETAL SYSTEM (2 ECTS)		
Teacher: Vittorio CALVISI		
1	Course objectives	Knowledge of the branch of surgery involving the musculoskeletal system using both surgical and nonsurgical means to treat musculoskeletal trauma, sports injuries, degenerative diseases, infections, tumors, and congenital disorders.
2	Course content and Learning outcomes (Dublin descriptors)	<p>Topics of the module include:</p> <ul style="list-style-type: none"> - Introduction to musculoskeletal system structure, body alignment, biomechanics, - Bone diseases and disorders, - Chronic arthropathies -Traumatic musculoskeletal disease <p>On successful completion of this module, the student should</p> <ul style="list-style-type: none"> o have acquired knowledge of the musculoskeletal system: anatomy and biomechanics; o know and understand the systemic diseases affecting the musculoskeletal system; o know and explain sports injuries & related surgery; o be able to make a musculoskeletal system examinations; o have capacity to use the knowledge acquired to the rehabilitation practice.
3	Prerequisites and learning activities	The student must know: the treatment or treatments designed to facilitate the process of recovery from musculoskeletal injury, illness, or disease to as normal a condition as possible.
4	Teaching methods and language	Lectures and study at home Language: Italian Ref. Text Book: -Mancini Morlacchi: <i>Clinica ortopedica manuale atlante</i> , Piccin ed 2011
5	Assessment methods and criteria	Selected student are elected to do further training, or fellowships, after completing their residency training.

Programme of “INTEGRAZIONE TERRITORIO OSPEDALE” “INTEGRATION BETWEEN HOSPITAL AND TERRITORY”		
This course is composed of three modules: 1) Continuity of care hospital-territory 2) Applied science diet during pregnancy 3) Accompanying the birth in the territory.		
D4215, compulsory		
First cycle Degree in OBSTETRICS, 3 th year, 2 nd semester		
Number of ECTS credits: 9 (workload is 270 hours; 1 credit = 30 hours)		
3) CONTINUITY OF CARE HOSPITAL TERRITORY (3 ECTS)		
Teacher: Prof. Loreto LANCIA		
1	Course objectives	The goal of this course is to provide the fundamentals of general nursing and clinical assessment.
2	Course content and Learning outcomes (Dublin descriptors)	<p>Topics include:</p> <ul style="list-style-type: none"> -Community as the context of care -Professional role and accountability -Practice in the community -Family centred care -The role of the nurse as a member of the healthcare team -Introduction to the concepts of client needs, safety, communication, teaching/learning, critical thinking, ethical-legal, cultural diversity, nursing history, and the program's philosophy of nursing.

		<p>On successful completion of this module, the student should:</p> <ul style="list-style-type: none"> o know and understand the fundamentals of Nursing Process and Nursing Clinical Assessment. o Be able to apply knowledge and understanding in the patients assessment by objective exam and interview. o be able to perform patient assessment and to identify health patient's needs in order to draw up nursing care planning starting from the patient assessment. o be able to explain the goal of nursing process and nursing clinical assessment to the patients and to other professionals. o be able to assess the own knowledge needs and then to guide own future learning. o have the skills necessary for maintaining microbial, physical, and psychological safety needed in therapeutic interventions. o demonstrate competency in performing basic nursing skills for individuals with common health alterations.
3	Prerequisites and learning activities	The student must have the basis of natural and human sciences.
4	Teaching methods and language	<p>Lectures, team work, exercises, home work.</p> <p>Language: Italian</p> <p>Ref. Text books :</p> <p>-R.F. Craven. <i>Principi fondamentali dell'assistenza infermieristica</i>. Casa Editrice Ambrosiana. Quinta edizione. 2013; AA. VV. Accertamento clinico - Guida metodologica illustrata per i professionisti della salute. 2013.</p>
5	Assessment methods and criteria	Written and oral exam, short report.

4) APPLIED SCIENCE DIET DURING PREGNANCY (3 ECTS)

Teacher: Maria Marcella MATTEI		
1	Course objectives	The goal of this course is to provide the student with knowledge on human nutrition and the principles of dietetics with reference to the physiological state of pregnancy.
2	Course content and Learning outcomes (Dublin descriptors)	<p>Topics of the module include:</p> <ul style="list-style-type: none"> -Energy balance; -Nutrients; -Risk food processing and preservation of food; -Nutritional needs of pregnant women in the absence of disease; -Diet therapy for pregnant women in the presence of diseases (diabetes, metabolic syndrome, etc.). <p>On successful completion of this module, the student should</p> <ul style="list-style-type: none"> o Have profound knowledge of the nutrients; o Have acquired the basics of the processing and preservation of foods and dietary risk o Have knowledge and understanding of proper nutrition for pregnant women ; o Understand and explain the chemistry underlying the properties of various food components; o Discuss basic principles of common food preservation methods; o Discuss basic principles and practices of cleaning and sanitation in food preparation operations; o Identify and explain nutrients in foods and the specific functions in maintaining health; o Be able to apply knowledge of the role of nutrition and healthy eating for disease prevention and wellness; o Demonstrate effective and professional oral and written communication skills and documentation; o Be able to apply professional guidelines to a practice scenario o Demonstrate capacity to continue learning by understand other texts on related topics.
3	Prerequisites and learning activities	The student must know Human Anatomy, Biochemistry and Physiology
4	Teaching methods and language	<p>Frontal lectures; seminars; team work; exercises, tutorials; home work</p> <p>Language: Italian/English</p> <p>Ref. Text books:</p> <p>P. Binetti; M. Marcelli; R. Baisi, <i>Manuale di nutrizione clinica e Scienze Dietetiche Applicate</i>. Società Editrice Universo, 2006.</p>

5	Assessment methods and criteria	Oral exam.
3) ACCOMPANYING THE BIRTH IN THE TERRITORY (3 ECTS)		
Teacher: Alfonso TIBERI		
1	Course objectives	This module is designed to introduce student to the relaxation used in the past as well as in the present. The module will consist of a theoretical part, aimed as explaining the techniques from a theoretical point of view, and a practical part that will involve the put in practice of the aforementioned techniques.
2	Course content and Learning outcomes	<p>Programme of the course:</p> <ul style="list-style-type: none"> -Pelvic Anatomy-Childbirth-History of the psychoprofilaxis -Suggestion and hypnosis-method: "Method of the theory of Grantly Dick-Read:"Childbirth without Fear -The Lamaze method:"Method of Painless Childbirth" -Janet Balaskas:"The active birth" -Leboyre method:"The sweet birth" -Music Therapy during birth-Oriental techniques, i.e., yoga, shiatsu, acupuncture-Autogenic Respiratory Training(A.R.T.) developed by Umberto Piscicelli -A.R.T. exercise. <p>Topics of the module include: Practical group exercises about the A.R.T. method.</p> <p>At the completion of the module the student is expected to:</p> <ul style="list-style-type: none"> o Know and understand the relaxation techniques; o Know and understand the anatomy of the Pelvic Floor; o Be able to put in practice the relaxations techniques; o Understand the P.P.O. most used in Italy.
3	Prerequisites and learning activities	The student will be able to demonstrate basic Knowledge anatomy of the pelvic floor and the main childbirth stages.
4	Teaching methods and language	Group Exercise Language: Italian Ref. Text Books: Worksheets provided by the teacher.
5	Assessment methods and criteria	Oral examination