UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Biomedicina, Neuroscienze e Diagnostica avanzata
ACADEMIC YEAR	2024/2025
MASTER'S DEGREE (MSC)	MEDICINE AND SURGERY
SUBJECT	PROFESSIONAL PRACTICE III YEAR
TYPE OF EDUCATIONAL ACTIVITY	F
AMBIT	21289-Tirocini formativi e di orientamento
CODE	09538
SCIENTIFIC SECTOR(S)	
HEAD PROFESSOR(S)	ALESSANDRO RICCARDO Professore Ordinario Univ. di PALERMO
OTHER PROFESSOR(S)	
CREDITS	15
INDIVIDUAL STUDY (Hrs)	75
COURSE ACTIVITY (Hrs)	300
PROPAEDEUTICAL SUBJECTS	
MUTUALIZATION	
YEAR	3
TERM (SEMESTER)	2° semester
ATTENDANCE	Mandatory
EVALUATION	Pass/Fail
TEACHER OFFICE HOURS	**ALESSANDRO RICCARDO** Monday 15:00 18:00 Via Divisi 83 Friday 15:00 18:00 Via Divisi 83

DOCENTE: Prof. RICCARDO ALESSANDRO

PREREQUISITES	The internship takes place during the first semester and second semester of the third year of the Degree in Medicine and Surgery and involves attendance at medical and surgical area wards/clinics of the reference course year. By carrying out this internship, the student is starting training activities in the field of medical specialties for the first time, since until now he has attended preparatory courses and activities. Therefore, the required prerequisites are the knowledge of the anatomy and physiology of the Cardiovascular, Respiratory Systems, of the Skin and iMicrobiology
LEARNING OUTCOMES	At the end of the internship, the student will have to know, understand and be able to do the following detailed with reference to the courses provided: Medical Methodology, Cardiology and Cardiological Intensive Care, Pulmonology, Dermatology, Infectious Diseases and General and Vascular Surgery, Nutrition. 1. The knowledge and understanding that students will achieve during the third year internship concern basic interpretative and decision-making knowledge characterized by the learning and interpretation of vital parameters and the main basic instrumental tests. Furthermore, the student will have to start developing the skills necessary to set up the basic therapies for the subjects covered by the internship. 2. The ability to apply the "knowledge and understanding", which the student will achieve, in the context of the third year internship will allow him a professional approach and the possession of adequate skills both to devise and support arguments, and to start solving complex problems , with reference to the following specialist areas of the disciplines of Medical Methodology, Cardiology and Cardiological Intensive Care, Pulmonology, Dermatology, Infectious Diseases and General and Vascular Surgery, Nutrition. In these areas the student will begin to develop the necessary manual skills to perform diagnostic tests and basic performance. Particular attention will be paid to the detection of vital signs and basic medical and surgical activities. 3. Judgment autonomy: The student will begin to have the basis for developing his/her own judgment autonomy by starting to develop the ability to collect and interpret the data deriving from the anamnesis, objective examination and laboratory data in the areas of Methodology Medicine, Cardiology, Pulmonology, Vascular Surgery, Dermatology, Infectious Diseases, General and Vascular Surgery, Nutrition. The student will have to start developing independent judgment with particular reference to the ability to formulate correct diagnostic hypotheses, hypothesize a prognosis and plan a therapeutic path, at least in the simplest and most paradigmatic cases. To this end, it will be necessary to integrate the practical aspects developed and learned during the internship with the theoretical knowledge object of the integrated reference course programmes. 4. Communication skills: Students will begin to develop the "doctor-patient" interaction in order to be able to communicate information related to the state of health. Furthermore, students will have to develop interaction with their colleagues in order to communicate and understand ideas, problems and solutions to specialist and non-specialist interlocutors. 5. Learning skills: Students must develop those learning skills that are necessary for them to continue their studies in the following years of the course, with a good degree of autonomy.
ASSESSMENT METHODS	The criteria for the final evaluation of the student at the end of the internship period are listed below: • The student respects the start and end shift times, dresses appropriately for the role, brings everything necessary with him. • The student demonstrates an active and collaborative attitude (asking questions, proposing to carry out activities). • The student implements the best practices of the doctor-patient relationship • The student interacts correctly with the nursing staff and with the medical staff • The student has the ability to take a history and perform a physical examination • The student orients himself on diagnostic hypotheses and on first level diagnostic tests • The student orients himself in the interpretation of laboratory tests and in the analysis of diagnostic imaging test reports. • The student has started to acquire the basic manual skills
EDUCATIONAL OBJECTIVES	The internship will be used to develop the practical aspects and to apply the theoretical knowledge learned in the integrated courses with frontal lessons. The objectives are therefore to bring the student closer both to the patients and to the basic instrumental activities (diagnostic or therapeutic). Due to its temporal collocation within the Degree course (III year), this internship will be for many students the first approach to the patient in the medical and surgical fields.

TEACHING METHODS	The internship activity involves rotation between the various departments whose teaching is foreseen in the third year (Medical Methodology, Cardiology and Cardiological Intensive Care, Pneumology, Dermatology, Infectious Diseases, General and Vascular Surgery, Nutrition). Completion of the third year internship will entitle to acquire 15 credits: attendance will be divided into five blocks of two weeks each and 3 credits each: for a total of 10 weeks and 15 credits. For each block, attendance is from Monday to Friday, in the hospital operating units connected with the teachings occurred in the Study Plan for the third year. The student will be able to choose the 5 Operating Units in which to attend for the scheduled hours, using the computer application made available by the University of Palermo. Attendance is mandatory. During the internship hours the student will be able to support the Tutor in clinical activities which include activities in the hospital ward, in specialist outpatient clinics. The student will also be able to participate in medical/surgical group activities which provide the discussion of clinical cases and the related diagnostic and therapeutic pathways within the individual disciplines of which attendance is expected. There are exercises in the field (ward and/or clinic) and the initial interaction with patients, under the supervision of the tutor. In this phase of the educational path, for the manual/instrumental activities, above all, the observation of the procedures is foreseen, with an initial approach only to the simpler ones.
SUGGESTED BIBLIOGRAPHY	1

SYLLABUS

Hrs	Practice
0	1. Interpretive and decision-making knowledge: 1.1. Calculate the BMI (Body Mass Index) 1.2. Interpretation of the main electrocardiographic pictures 1.3. Interpret blood gas values 1.4. Clinical interpretation of the results of the chemical, physical, culture and cytological examination of urine 1.5. Use of antibiotics: guidelines 1.6. Interpret a thermal curve 1.7. Set antipyretic therapy 1.8. Set up antibiotic therapy 1.9. Set the therapy of respiratory insufficiency 1.10. Set heart failure therapy 1.11. Set up the therapy of acute coronary syndrome and arterial hypertension 1.12. Prescribe a diet for therapeutic and preventive purposes 1.13. Request and interpret the most common laboratory tests
0	2. Manual skills 2.1. Blood pressure measurement 2.2. Take peripheral heart rate 2.3. Take the central heart rate 2.4. Measure the respiratory rate and detect the characteristics of the breath 2.5. Carry out oximetry 2.6. Perform an EKG 2.7. Perform a venous blood draw 2.8. Make intravenous injections 2.9. Make intramuscular injections 2.10. Apply O2 therapy 2.11. Perform intradermal/subcutaneous injections 2.12. Perform rectal exploration 2.13. Take an arterial blood sample 2.14. Palpation of the breast and axilla 2.15. Suture a superficial wound 2.16. Remove stitches and agraffes 2.17. Perform bandages 2.18. Disinfect skin and wounds 2.19. Correctly apply the standard hygiene precautions of personal and patient precautions 2.20. Wear sterile gloves correctly 2.21. Handle and dispose of sharps properly
0	3. Emergency (on dummy) 3.1. Carry out (in simulation) cardio-pulmonary resuscitation maneuvers (on dummy): external cardiac massage; mouth-to-mouth and Ambu resuscitation
0	4. Anamnesis 4.1. Collect family, physiological, remote pathological and proximate pathological anamnesis
0	5. Physical examination 5.1. Perform the E.O. of the cardiovascular system 5.2. Perform the E.O. thoracopulmonary 5.3. Evaluate nutritional status

SYLLABUS

Hrs	Practice
0	6. Certifications, Clinical Reports and Informatics 6.1. Compile a clinical record and report 6.2. Make a request for specialist and laboratory tests 6.3. Fill out a mandatory notification for infectious diseases 6.4. Prescribe drug therapy
0	7. Laboratory 7.1. Perform respiratory function tests 8. Miscellaneous 8.1. During the visit, apply protective measures for the patient with respect to the contagion of infectious diseases