

Aniello Russo Spena

PROGRAMME OF "MECCANICA DEI FLUIDI" "FLUID MECHANICS"		
<ul style="list-style-type: none"> • CODE: • TYPE OF COURSE UNIT: COMPULSORY FOR THE CHEMICAL ENGINEERING SPECIALIZATION • LEVEL OF COURSE UNIT (E.G. FIRST, SECOND OR THIRD CYCLE; SUB-LEVEL IF APPLICABLE): FIRST CYCLE • YEAR OF STUDY (IF APPLICABLE): SEMESTER: SECOND YEAR, SECOND SEMESTER 		
NUMBER OF ECTS CREDITS: 6 (WORKLOAD OF 90 HOURS OF TEACHING + WORK AT HOME; 1 CREDIT = 25 HOURS OF TOTAL ACTIVITIES)		
Teacher: Prof. Aniello Russo Spena		
1	Course objectives	THE COURSE DEVELOPED THE BASIC APPROACH TO FLUID MECHANICS WITH ENGINEERING APPLICATIONS.
2	Course content and Learning outcomes (Dublin descriptors)	<p>COURSE CONTENT: PROPERTIES OF FLUIDS. FLUID STATICS. KINEMATICS OF FLUID FLOW. ENERGY CONSIDERATIONS IN STEADY AND UNSTEADY FLOW. BASIC HYDRODYNAMICS. MOMENTUM AND FORCES IN FLUID FLOW. STEADY FLOW IN PRESSURE CONDUITS. STEADY FLOW OF COMPRESSIBLE FLUIDS. FORCES ON IMMERSSED BODIES. FLUID MECHANICS. IMPULSE TURBINE AND REACTION TURBINES. PUMPS.</p> <p>LEARNING OUTCOMES: THE SUBJECT MATTER IS LEARNED BY PLACING EMPHASIS ON THE DEVELOPMENT OF BASIC PRINCIPLES AND THEIR LIMITS OF APPLICABILITY.</p>
3	Prerequisites and learning activities	PREREQUISITES: MATHEMATICS; PHYSICS
4	Teaching methods and language	LECTURES AND EXERCISES. LANGUAGE: ITALIAN DIDACTIC MATERIALS PROVIDED BY THE TEACHER
5	Assessment methods and criteria	ORAL EXAMINATION