

Bachelor's Degree in Engineering Sciences (3years)

AIMS

Engineering Science aims at training Bachelor Engineers providing them with a very solid and unusual background in basic courses giving them the possibility to further enhance their education by choosing among 7 different Master of Science in engineering (Master's Degrees, 2 years, in Italian language except Mathematics that will be taught in English language)

COURSE DESCRIPTION AND CAREER PROSPECT

All courses for the degree in Engineering Sciences are taught by faculty members of high international reputation from the School of Engineering of the University of Rome "Tor Vergata", who are all engaged in outstanding research activities ranging from basic sciences to the most advanced applied topics. In undertaking this new educational path in Engineering Sciences, it is the general intention of our faculty to create a friendly environment, characterized by a strong and fruitful student-teacher interaction. Internship in one of the various departments involved with Engineering Sciences will be offered to dedicated students willing to learn more about basic technologies and advanced measurement procedures in mechanics and electronics.

Students from "Tor Vergata" School of Engineering are among the first ones who achieve a permanent working position immediately after their graduation (83.7% ISTAT data refer to central Italy).

WEB SITE: <http://www.engineeringsciences.uniroma2.it/MENU/HOME/Home.html>

ENTRY REQUIREMENTS

For Italian students

At the beginning of September we are waiting for you at our campus for the ADMISSION TEST (generally in September).

Admission procedures are available at the following address: www.engineering-sciences.uniroma2.it

For Foreign students

You will be selected on the basis of your CV and an interview via Skype with Prof. Roberto Verzicco.

(Please send your CV and skype address within July 20th 2012 to valdoni@ing.uniroma2.it)

STUDY PLAN

Course	CFU
Engineering Economics	6
Fundamentals of Chemistry	9
Mathematical Analysis I	12
Fundamentals of Computing	9
Linear Algebra and Geometry	9
Physics I	12
Electrical Network Analysis	9
Mathematical Analysis II	9
Physics II	9
Analogue Electronics	9
Feedback Control Systems	9
Mechanics of Materials and Structures	9
Thermodynamics and Heat Transfer	9
Digital Electronics	9
Kinematics and Dynamics of Mechanisms	9
Modules left at student's choice (30 credits)	
Fluid Machinery	6
Energy Systems	6
Machine Design	9
Manufacturing Technologies	9
Experimental Electronics	6
Electronic Devices and Sensors	9
High Performance Electronics	6
VLSI Circuit and System Design	9
Other "credit giving" activities (12 credits)	

Foreign language#	3
Formative activities	3
Final Exam	6