



SCUOLA LEONARDO
DA VINCI® - **MILANO**



PREPARATION COURSES

SELECTIVE ENTRY TESTS FOR ITALIAN UNIVERSITIES

> **Milan** 3rd - 28th August 2020

**4 WEEKS INTENSIVE COURSE
(MONDAY TO SATURDAY)**

140 LESSONS*

* Each lesson 45'

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Entrance to many Italian universities requires passing a test. The entry test is the main tool in selecting new students for limited access programs (**Medicine, Dentistry, Architecture, Engineering**) or to programs in which the number of students is determined by a national basis. In many of the other departments (*Mathematics, Statistics, Chemistry, Biology, Law, Economics and Business Studies, Psychology, Languages, Literature, Philosophy, Health Professions*), the test is still required and is used to determine the students' beginning knowledge, so that gaps and deficiencies the student will have to remedy, can be identified.

Scuola Leonardo da Vinci offers preparation courses for the entrance exams of various departments both in English and in Italian. Participants can both improve their knowledge in specific areas covered by the tests as well as develop specialized language competence. The course is organized just as the admission tests would be, in two parts: a) general knowledge, logical reasoning, reading comprehension; and b) specific knowledge required by each department.

Prerequisites

To participate in the course, students are required to have good Italian/English language skills (minimum level B1/B2 of the Common European Framework of Reference for Languages). Therefore it is advisable, if you do not already possess the required level of Italian, to first take a language course before enrolling in a preparation course.

Contents

- 1. General cultural knowledge, logical and reasoning skills.** The course presents all basic contents with reference to past years exams.
The objective is to develop and apply reasoning skills and at the same time foster the ability to identify hypotheses, evidence and error in logical processes. Students practice these logical processes using three different themes: find the best and most effective procedures to arrive at the solution of a given problem; select specific information; recognize relationships of similarity and difference, number sequences, relations between sets of elements and semantic relationships between words.
- 2. Knowledge in the areas of science of various departments.** In lessons devoted to specific scientific fields, in addition to the content, special attention is dedicated to the specialized vocabulary. It is crucial to have a good amount of knowledge of this specific vocabulary in order to be able to handle the sections of the selective admissions test dedicated to these topics.



Course Contents:

Departments with Limited Access Programs

a) Medicine and Dentistry

Physics (fluid mechanics; dynamics; kinematics; thermology and thermodynamics; electrostatics and electrodynamics; measurements; optics and acoustics)

Mathematics (functions; set theory and algebra; geometry)

Chemistry (physical chemistry; electrochemistry; inorganic chemistry; organic chemistry; gas laws)

Biology (cells; organic chemistry; bioenergetics; bacteria, viruses, fungi and major pathogens; reproduction and heredity; anatomy and physiology of animals and humans; food chains; biogeochemical cycles)

b) Architecture - Politecnico (Milano, Torino, etc.) (English or Italian)

History of Art and Architecture
Technical Design

Mathematics (functions; set theory and algebra; geometry)

Physics (fluid mechanics; dynamics; kinematics; thermology and thermodynamics; electrostatics and electrodynamics; measurements; optics and acoustics)

c) Engineering - Politecnico (Milano, Torino, etc.) (English or Italian)

Mathematics and Statistics (functions; set theory and algebra; geometry)

Engineering (civil engineering; environmental engineering; engineering management; materials engineering)

Physics (fluid mechanics; dynamics; kinematics; thermology and thermodynamics; electrostatics and electrodynamics; measurements; optics and acoustics)

Chemistry (physical chemistry; electrochemistry; inorganic chemistry; organic chemistry; gas laws)

Departments without Limited Access Programs

a) Law

Law (private law; public law; constitutional law)

Economics (political economics; history)

b) Economics and Business

Mathematics and Statistics (numerical sets and algebra; functions; geometry; econometrics)

Economics (business economics; political economics; science of finance; international economics)

Law (private law; public law)

c) Psychology

Biology (cells; organic chemistry; bioenergetics; bacteria, viruses, fungi and major pathogens; reproduction and heredity; anatomy and physiology of animals and humans; food chains; biogeochemical cycles)

Mathematics and Statistics (functions; set theory and algebra; geometry)

d) Health Professions

Mathematics and Statistics (functions; set theory and algebra; geometry)

Physics (fluid mechanics; dynamics; kinematics; thermology and thermodynamics; electrostatics and electrodynamics; measurements; optics and acoustics)

Practice and Health Care Regulation

e) Humanities (Languages; Literature; History; Philosophy)

Italian Literature (from Dolce stil novo to Italo Calvino)

History (medieval history; modern history; contemporary history)

Art History (from classical Greece to 900)

For information and enrollment

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