A.Y. 2019/2020

Internal Courses – Class of Natural Sciences

Courses of the 1st year

CALCULUS
Prof. Francesco Rossi

COMPLEMENTS OF ANALYSIS
Prof. Luca Martinazzi

INTRODUCTION TO PROBABILITY MODELS
Prof. Alessandra Bianchi

INTRODUCTION TO THERMODYNAMICS
Prof. Fulvio Baldovin

Courses of the 2nd year

MEASURE THEORY
Prof. Paolo Ciatti

AN INTRODUCTION TO CATEGORY THEORY AND APPLICATIONS
Prof. Riccardo Colpi

FLUID DYNAMICS
Prof. Roberto Turolla

INTRODUCTION TO MOLECULAR MODELLING
Prof. Antonino Polimeno

Courses of the 3rd year

Upon request, the courses of the 4th and 5th year can be accessed during the 3rd year too.

PHYSICS LABORATORY
Prof. Marco Zanetti

GAME THEORY
Prof. Leonardo Badia

QUANTUM OPTICS AND INFORMATION
Proff. Paolo Villoresi, Giuseppe Vallone

ADVANCED ELECTROMAGNETISM
Prof. Massimo Passera

CLASSIC AND CONTEMPORARY CRYPTOGRAPHY
Prof. Michele Elia
Courses of the 4th and 5th year

One of the following courses can be replaced by an individual project, under the supervision of a teacher.

CONFORMAL FIELD THEORIES
Prof. Alessandro Vichi

QUANTUM MECHANICS
Prof. Pieralberto Marchetti

MOLECULAR PATTERNS THAT CONNECT METABOLISM WITH LONGEVITY
Prof. Marco Sandri