



scuolagalileiana
di studi superiori

1222·2022
800
ANNI



UNIVERSITÀ
DEGLI STUDI
DI PADOVA

A.Y. 2020/2021

Internal Courses – Class of Natural Sciences

Courses of the 1st year

CALCULUS

Prof. Daniela Tonon

COMPLEMENTS OF ANALYSIS

Prof. Davide Vittone

INTRODUCTION TO PROBABILITY MODELS

Prof. Alessandra Bianchi

INTRODUCTION TO THERMODYNAMICS

Prof. Fulvio Baldovin

Courses of the 2nd year

MEASURE THEORY

Prof. Pier Domenico Lamberti

ALGORITHM DESIGN

Prof. Francesco Silvestri

FLUID DYNAMICS

Prof. Roberto Turolla

INTRODUCTION TO SPACE PROPULSION

Prof. Daniele Pavarin

FUNDAMENTALS ON DRUGS ACTION AND THEIR PSYCHOTROPIC EFFECTS

Prof. Alessandro Angrilli

Courses of the 3rd year

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

INTRODUCTION TO LINEAR ALGEBRAIC GROUPS

Prof. Giovanna Carnovale

SELECTED TOPICS IN NON EQUILIBRIUM STATISTICAL MECHANICS

Prof. Davide Gabrielli

STATISTICAL (MECHANICAL) METHODS FOR QUANTITATIVE FINANCE

Proff. Claudio Tebaldi, Fabrizio Lillo

FOURIER ANALYSIS AND APPLICATIONS IN NUMBER THEORY

Prof. Paolo Ciatti

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.

BLACK HOLES

Proff. Gianguido Dall'Agata, Davide Cassani

SIGNALING ROLES OF BIOCHEMICAL METABOLITES

Prof. Luca Scorrano

KNOT THEORY

Proff. Paolo Papi, Domenico Fiorenza

TOPICS IN SUB-RIEMANNIAN GEOMETRY

Proff. Andrei A. Agrachev, Davide Barilari