



**scuolagalileiana**  
di studi superiori



**UNIVERSITÀ  
DEGLI STUDI  
DI PADOVA**

**A.Y. 2016/2017**

## **Internal Courses – Class of Natural Sciences**

### **Courses of the 1<sup>st</sup> year**

#### **CALCULUS**

Prof. Paolo Guiotto

#### **COMPLEMENTS OF ANALYSIS**

Prof. Davide Vittone

#### **INTRODUCTION TO PROBABILITY MODELS**

Prof. Alessandra Bianchi

#### **INTRODUCTION TO THERMODYNAMICS**

Prof. Fulvio Baldovin

### **Courses of the 2<sup>nd</sup> year**

#### **MEASURE THEORY**

Prof. Paolo Ciatti

#### **INTERACTION NETWORKS IN LIVING SYSTEMS**

Prof. Amos Maritan

#### **FLUID DYNAMICS**

Prof. Roberto Turolla

#### **DATA ANALYSIS AND STATISTICS**

Prof. Giulio D'Agostini

### **Courses of the 3<sup>rd</sup> year**

*Upon request, the courses of the 4<sup>th</sup> and 5<sup>th</sup> year can be accessed during the 3<sup>rd</sup> year too.*

#### **THERMODYNAMICS OF NON-EQUILIBRIUM STATES**

Prof. Giorgio Moro

#### **BIOLOGY, GENETICS AND BIOTECHNOLOGY OF PLANTS**

Prof. Livio Trainotti

#### **INTRODUCTION TO COGNITIVE NEUROSCIENCE**

Proff. Mathew Diamond, Davide Zoccolan, Domenica Buetti e Davide Crepaldi

#### **DIFFERENTIAL GEOMETRY**

Proff. Carla Novelli, Franco Cardin

#### **PROBABILITY AND INTRODUCTION TO STOCHASTIC PROCESSES**

Prof. Paolo Dai Prà

## Courses of the 4<sup>th</sup> and 5<sup>th</sup> year

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

### **QUANTUM INFORMATION**

Proff. Paolo Villoresi, Giuseppe Vallone

### **METHODS OF EXPERIMENTAL PHYSICS FOR LIFE SCIENCES**

Proff. Riccardo Faccini, Giovanni Carugno

### **INTRODUCTION TO NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS**

Prof. Nicola Garofalo