PhD in COMPUTING SCIENCES AND ARTIFICIAL INTELLIGENCE

CYCLE 43rd - COHORT 2027-2028
Please note that the study plan might be subject to minor changes.
Lessons start in early September.
The program requires full-time commitment with compulsory attendance.

Important note on Years 1 and 2: the study plan shown below is the standard study plan. With the approval of the PhD Director, PhD students may: (i) take a minimum of 4 and a maximum of 8 courses (including the PhD seminar) in Year 1 and the remaining courses (if any) in Year 2; (ii) replace up to 2 courses with courses offered by the PhD programs in MATH and STAT-ML or with selected MSc-level courses.

First year - a.y. 2027-28

6 compulsory courses
+ Research Ethics course (compulsory self-managed online course)
+ seminars organized by the Computing Sciences Department

COURSE TITLE	HOURS	COURSE DIRECTOR
OPTIMIZATION	24	CELLI
GRAPH THEORY	24	SANITA'
ADVANCED MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE	24	LUCIBELLO
SCIENTIFIC CODING	24	BALDASSI
THEORETICAL COMPUTER SCIENCE	24	BLASIOK
COMPLEX SYSTEMS AND ARTIFICIAL INTELLIGENCE	24	MEZARD

Requirements to pass to the next year

Exam for each course.

Second year - a.y. 2028-29

1 compulsory course + 1 compulsory PhD seminar
+ seminars organized by the Computing Sciences Department

COURSE TITLE	HOURS	COURSE DIRECTOR
ARTIFICIAL INTELLIGENCE AND BIOLOGY	24	BRUNEL
PhD SEMINAR ON HOT-TOPICS IN COMPUTER SCIENCE	24	POLAK

Requirements to pass to the next year

Exam for each course.
Positive assessment by advisor and co-advisor.

Third and Fourth year - a.y. 2029-30 and 2030-31

- Study/research period at other Universities (optional);
- Teaching/Teaching Assistantship/Research Assistantship activities (optional);
- conferences (as a listener and as a speaker);
- seminars organized by the Computing Sciences Department;
- presentation of the thesis project (at the end of 3rd year);
- thesis submission to external reviewers (4th year);
- thesis defense.