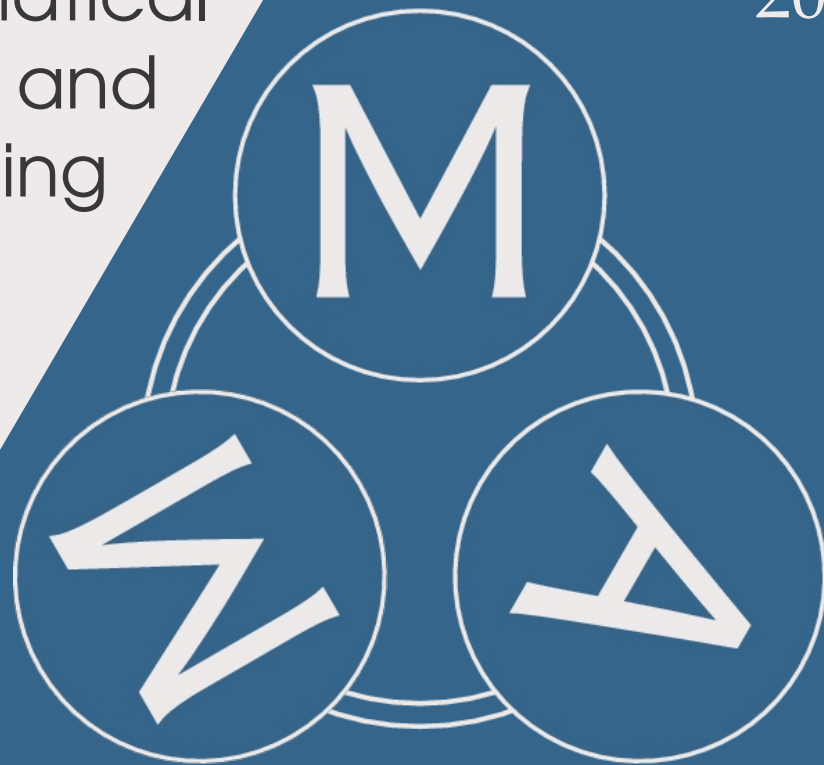


# International Master **MAM**

**Mathematical  
Analysis and  
Modelling**

2015-2016



The **MAM** programme is an International Master's degree, commissioned jointly by the Universities of **Rouen** (France), **Salerno** (Italy) and **Tomsk** (Russia). It is supported by the internationally renowned research laboratories of these universities.

Admissions based on student record. Deadline for applications: see website.

[lms.univ-rouen.fr/Enseigne/mam/](http://lms.univ-rouen.fr/Enseigne/mam/)



## Coordinators

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## International Partners

- \* University of Salerno (Italy),
- \* State University of Tomsk (Russie).
- \* More European Universities are joining us (Germany, Netherlands, Spain).

**Description:** Master of Excellence in Mathematics, applied to modelling in sciences.

The development, the theoretical and the numerical treatment of mathematical models is becoming more and more important in many fields, like natural sciences and engineering sciences but also biology, chemistry, environmental sciences and more recently the medical science.

The MAM program is an International Master's degree, supported by the internationally renowned research laboratories of each partner. It can be professional or research oriented, depending on the choices of students.

**Years :** 2 over 4 semesters, 30 ECTS.

**Courses:** Taught in each university and coordinated by a common Steering Committee. A core of introductory courses is common to all the universities of the program. The selected courses will be chosen by each university according to the local scientific research activity. Courses cover mathematical analysis, ordinary differential equations, partial differential equations, optimal control, probability, statistics and their applications (modelling, numerical analysis, scientific computing).

**Master thesis:** Done in semester 4 (30 credits), mandatory, possibly done in a company.

**Lecture languages:** English.

**Mobility and Diplome:** Each student will spend at least one semester (maximum one year) in one of the other partner universities. A double master degree, from both the enrolment and the mobility institution is delivered.

**Tutoring:** A tutoring system for each student, assigned to a teacher of the enrolment university is in place.

## Objectifs

The aim is to give students a solid background in mathematical analysis with such applications as numerical methods and scientific computing, mathematical modeling, optimization.

## Openings

Jobs in industry and service companies or enrolment in a Ph.D. program in applied mathematics.

**Admission for Application:** Bachelor in Mathematics.

The application form (dossier de validation) is available at the admission office of the university. A recommendation letter from a mathematics teacher of the home institution and a motivation letter are required.

## Research institutions involved

- \*Laboratoire de Mathématiques R. Salem (LMRS) and the doctoral School SPMII, University of Rouen,
- \*Department of Mathematics of the University of Salerno,
- \* Faculty of Mathematics and Mechanics of the State University of Tomsk,
- \* The research institute of incoming partners.

**MAM website:** <http://lmrs.univ-rouen.fr/Enseigne/mam/index-en.html>

**Admission Office:** [Scolarite.Sciencesmad@univ-rouen.fr](mailto:Scolarite.Sciencesmad@univ-rouen.fr)