The Master is organized into two courses, M1 and M2. M2 has two specializations: Introduction to Research and Applications of Mathematics.

To achieve each specialization the student must complete a minimum of 12 credits on specialization subjects and must take a third subject either of the same specialization or of the other one. In any case, the Master's Thesis (18 credits) will fit the chosen specialization.

**Module M1**: Complementary training (60 credits)
M1 is a complementary training module which are determined individually according to student’s previous studies. Graduates in Mathematics or equivalent international degrees should not take this module. The remaining students will study the subjects individually determined according to previous training.

In M2, the two Master’s specializations have a common module in the first semester which is followed by another specialization module in the second semester to be chosen according to the desired specialization:

**Module M2.1: common to both specializations (24 credits)**
Designed to provide advanced training in several areas of Mathematics. In this module, the student must take three subjects of 8 credits each.

**Module M2.2-Re: specialty in Introduction to Research (18 credits)**
Mainly for students who wish to course a Doctorate in fundamental Mathematics. In this module, the student must take three subjects of 6 credits each. Among the three subjects to be taken in this specialization, students may also choose a maximum of one subject from the module in Applications of Mathematics (M2.1-AM).

**Module M2.2-AM: specialization in Applications of Mathematics (18 credits)**
For students who wish to deepen in the use and in the introduction to research of Mathematics in industry, technology, finance and other fields of application. In this module, the student must choose 3 subjects of 6 credits each. Among the three subjects to be taken in this specialization, students may also choose a maximum of one subject from the module in Introduction to Research (M2.2-Re).

**Curriculum**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Semester</th>
<th>Status</th>
<th>ECTS</th>
<th>Module</th>
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<tbody>
<tr>
<td>30065</td>
<td>Partial Differential Equations in Science and Engineering</td>
<td>1</td>
<td>Option</td>
<td>8</td>
<td>M2/ Common</td>
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<td>30066</td>
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<td>32936</td>
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<td>Mandatory</td>
<td>18</td>
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</tbody>
</table>

Those specializations that do not have a minimum number of applications before the end of the first term of the admission procedure might not be taught. It will be informed before the second term.

According to the agreements of the Committee on Postgraduate Studies at UAM, those elective subjects having less than five students enrolled, may not be taught. Involved students will be advised for relocation and enrollment in other subjects.

The offer of optional subjects could suffer minor changes before the start of lessons for reasons of adjustments in Master’s teaching organization, in which case, it will be properly announced.