# Curriculum

2nd year of Master’s programs in France.

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| **M2 MMS Part of Dual Degree Program at UPPA** | |
| **SEMESTER 1** | |
| **Course Title** | **ECTS** |
| Analysis of PDE | 6 |
| Numerical Analysis of PDEs | 6 |
| **ELECTIVES 1** | |
|  | 4 |
| Finite Volume Methods for Hyperbolic Systems | 4 |
| Scientific computing | 4 |
| Scientific computation with Python (M1 course, specific to the ENS KOUBA dual-degree) | 4 |
| High-Performance Computing | 4 |
| Reservoir simulation | 4 |
| Industrial Software | 4 |
| Mesh and applications | 4 |
| Stochastic PDE | 4 |
| Inverse problems | 4 |
| Asymptotic analysis | 4 |
| Mathematical modeling and numerical analysis for Hyperbolic problems | 4 |
| Advanced Analysis | 4 |
| Mathematical Engineering of deep learning | 6 |
| **ELECTIVES 2** |  |
| French or English as a foreign language | 2 |
| **SEMESTER 2** |  |
| Integrator project | 10 |
| Internship from 5 to 6 months | 20 |

Training

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| **Intership** | Mandatory |
| **Intership duration** | 5 months |