**Master Physique fondamentale et applications** — **Responsable**

**M1 PFA** — **Responsable**

| | | | | MCC initiales | | | | | | | | | | | | MCC modifiées pour crise sanitaire | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Régime ordinaire | | | | | | DA | | | | | | Régime ordinaire | | | | | | DA | | | | | |
| | | | | Contrôle continu | | | Examen | | | Contrôle continu | | | Examen | | | Contrôle continu | | | Examen | | | Contrôle continu | | | Examen | | |
| **Code UE** | **Intitulé d'UE** | **ECTS** | **Coefficien** | **Ecrit** | **Pratique** | **Oral** | **Ecrit** | **Pratique** | **Oral** | **Ecrit** | **Pratique** | **Oral** | **Ecrit** | **Pratique** | **Oral** | **Ecrit** | **Pratique** | **Oral** | **Ecrit** | **Pratique** | **Oral** | **Ecrit** | **Pratique** | **Oral** | **Ecrit** | **Pratique** | **Oral** |
| Semestre 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X1PP010 | Physique quantique | 4.0 | 8.0 | 0 | 0 | 0 | 4.0 | 0 | 0 | 0 | 0 | 0 | 4.0 | 0 | 0 | | | | | | | | | | | | |
| X1PP020 | Physique statistique | 4.0 | 8.0 | 0 | 0 | 0 | 4.0 | 0 | 0 | 0 | 0 | 0 | 4.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 4 |
| X1PP030 | Physique Atomique | 4.0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| X1PP031 | Physique atomique | 0 | 6.0 | 0 | 0 | 0 | 3.0 | 0 | 0 | 0 | 0 | 0 | 3.0 | 0 | 0 | | | | | | | | | | | | |
| X1PP032 | Introduction à la Physique du LASER | 0 | 2.0 | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 | | | | | | | | | | | | |
| X1PP040 | Physique subatomique | 4.0 | 8.0 | 0 | 0 | 0 | 8.0 | 0 | 0 | 0 | 0 | 0 | 8.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 4 |
| X1PP050 | Méthodes statistiques | 3.0 | 3.0 | 0 | 0 | 0 | 3.0 | 0 | 0 | 0 | 0 | 0 | 3.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 |
| X1PP060 | Anglais Scientifique | 1.0 | 1.0 | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 | 0 | 0 | 1.0 | | | | | | | | | | | | |
| X1PP070 | Connaissance de l'entreprise - Entrepreneuriat | 1.0 | 1.0 | 1.0 | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | | |
| X1PP080 | Interaction rayonnement matière | 2.0 | 2.0 | 0 | 0 | 0 | 2.0 | 0 | 0 | 0 | 0 | 0 | 2.0 | 0 | 0 | | | | | | | | | | | | |
| X1SM010 | Physique des Solides | 4.0 | 8.0 | 0 | 0 | 0 | 4.0 | 0 | 0 | 0 | 0 | 0 | 4.0 | 0 | 0 | | | | | | | | | | | | |
| X1SM020 | Physique expérimentale 1 : Physique du Solide | 3.0 | 6.0 | 0 | 3.0 | 0 | 1.5 | 0 | 0 | 0 | 0 | 0 | 3.0 | 0 | 0 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Semestre 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| X2PP010 | Physique expérimentale 2 | 2.0 | 2.0 | 0 | 2.0 | 0 | 0 | 0 | 0 | 0 | 2.0 | 0 | 0 | 0 | 0 | | | | | | | | | | | | |
| X2PP020 | Neutronique - Physique des réacteurs | 2.0 | 2.0 | 0 | 0 | 0 | 2.0 | 0 | 0 | 0 | 0 | 0 | 2.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| X2PP030 | Rayonnements ionisants, appli médicales & indust. | 1.0 | 2.0 | 0 | 2.0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| X2PP040 | Électromagnétisme et imagerie | 2.0 | 4.0 | 0 | 2.0 | 0 | 1.0 | 0 | 0 | 0 | 1.0 | 0 | 1.0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| X2PP050 | Astrophysique et cosmologie | 2.0 | 2.0 | 0 | 0 | 0 | 2.0 | 0 | 0 | 0 | 0 | 0 | 2.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| X2PP070 | Symétries, groupes et particules | 2.0 | 2.0 | 0 | 0 | 0 | 2.0 | 0 | 0 | 0 | 0 | 0 | 2.0 | 0 | 0 | | | | | | | | | | | | |
| X2PP080 | Le problème à N corps | 2.0 | 2.0 | 0 | 0 | 0 | 2.0 | 0 | 0 | 0 | 0 | 0 | 2.0 | 0 | 0 | | | | | | | | | | | | |
| X2PP090 | Monte Carlo Simulation in Physics | 2.0 | 4.0 | 0 | 0 | 0 | 2.0 | 0 | 0 | 0 | 0 | 0 | 2.0 | 0 | 0 | | | | | | | | | | | | |
| X2PP100 | Projet expérimental | 1.0 | 1.0 | 0 | 1.0 | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 | 0 | | | | | | | | | | | | |
| X2PP110 | Stage ou TER | 10.0 | 20.0 | 10.0 | 0 | 10.0 | 0 | 0 | 0 | 5.0 | 0 | 5.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| X2PP120 | Projet tutoré analyse | 1.0 | 1.0 | 0 | 0 | 1.0 | 0 | 0 | 0 | 0 | 0 | 1.0 | 0 | 0 | 0 | | | | | | | | | | | | |
| X2PP130 | Théorie et Traitement du signal | 3.0 | 3.0 | 0 | 0.9 | 0 | 2.1 | 0 | 0 | 0 | 0.9 | 0 | 2.1 | 0 | 0 | 0 | 0,9 | 0 | 0 | 0 | 2,1 | 0 | 0,9 | 0 | 0 | 0 | 2,1 |