**Requirements for a Master Degree of Physics**

**The department offers a Master Degree of Physics after completion of 33 credit hours distributed as follows:**

**Comprehensive stream:**

1. **Compulsory Courses (24 Credit hours)**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Course No** | **Title of the Course** | **C.H** |
| **1** | **0302714** | **Classical Mechanics** | **3** |
| **2** | **0302734** | **Electrodynamics** |  |
| **3** | **0302751** | **Quantum Mechanics(1)** | **3** |
| **4** | **0302762** | **Statistical Mechanics** | **3** |
| **5** | **0302771** | **Solid State Physics** | **3** |
| **6** | **0302792** | **Mathematical Physics** | **3** |
| **7** | **0302744** | **Atomic and Molecular Physics** | **3** |
| **8** | **0302752** | **Quantum Mechanics(2)** | **3** |

1. **Elective Courses (9 credit hours)**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Course No** | **Title of the Course** | **C.H** |
| **1** | **0302742** | **Nuclear Physics** | **3** |
| **2** | **0302745** | **Plasma Physics** | **3** |
| **3** | **0302754** | **Quantum Field Theory** | **3** |
| **4** | **0302756** | **Many-Particle Physics** | **3** |
| **5** | **0302793** | **Special Topics (1)** | **3** |

1. **Comprehensive Exam (0302708)**