

**Mechanics of the material point  
42h Heures**

**Dimensional analysis and uncertainty calculation  
09 Heures**

Chapitre 1

**Charges ponctuelles  
(2 Semaines)**

**Units**

**Physical quantities**

**Dimensional equations and  
Homogeneity of dimensional equations**

**Uncertainty Calculation  
(1 Semaines)**

**Absolute and Relative Uncertainty**

**Uncertainty calculation**

**Vector Analysis  
03 Heures**

chapitre 2

**Definition of vectors**

**Product types**

**Kinematics Of Material Point  
15 Heures**

Chapitre 3

**Motion characteristics**

**Expression of speed and acceleration  
in different coordinate systems**

**Study of some movements**

**Relatif Motion**

**Newton's laws  
of motion**

**Notion of force  
and law of force**

**Dynamics of Particle  
09 Heures**

Chapitre 5

**Work and Energy  
06 Heures**

Chapitre 4