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University Abou Bekr Tlemcen
Faculty of technology

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intended for first year ST engineering students

to have a good command of physical sciences and
basic mathematics in the secondary cycle.

Acquire the fundamental notions of classical mechanics
linked to the material point through:
- Kinematics -
- Dynamics -
- And the concepts of work and energy.

Credit: 7
Coefficient: 4

continuous assessment
Final exam

Course evaluation

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Course:1h30
TD : 3h00

**Physics 1
Mechanical Element**

distribution of

method

weekly

includes

5 chapters linked together
by concepts and notions

Bibliographic sources

includes

includes

includes

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Chapter 1: (3h:00)
Dimensional Analysis and Vector Analysis

Chapter 2: (3h:00)
Kinematics

Chapter 3: (3h:00)
Dynamics

chapter 4: (3h:00)
Rotational Movement

chapter 5: (3h:00)
Work, Energy and power

Mvt of the material point in
the different coordinates systems

Relative movement

Newton's laws

conservation of momentum

Angular momentum and torque

ve and non conservative force

Work and potential energy

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Application exercises allowing the acquisition of the concepts studied