

1. Title	Physics I
2. Code	EMAMAG202A
3. Range	The knowledge is needed for a wide range of aircraft repair and maintenance works, e.g. applicable to aircrafts, analysis, machineries, airworthiness, airframes, avionics, materials, tests, documentation, safety, health and tools etc.
4. Level	2
5. Credit	2
6. Competency	<p style="text-align: center;"><u>Performance Requirement</u></p> <p>6.1 Knowledge</p> <ul style="list-style-type: none"> ◆ Able to know about the Matter <ul style="list-style-type: none"> • Nature of matter, chemical compounds, states and changes between states ◆ Able to know about the Mechanics <ul style="list-style-type: none"> • Statics • Kinetics • Dynamics • Fluid dynamic ◆ Able to know about the Thermodynamics <ul style="list-style-type: none"> • Temperature and Heat definition. <p>6.2 Theoretical and practical aspects</p> <ul style="list-style-type: none"> ◆ Able to apply the following knowledge in the aircraft maintenance. <ul style="list-style-type: none"> • Fluid dynamic • Thermodynamics <p>6.3 Professional approach</p> <ul style="list-style-type: none"> ◆ Able to know about the principal elements of the subjects. ◆ Able to understand the basic knowledge of the theoretical and practical aspects of the following subjects. <ul style="list-style-type: none"> • Fluid dynamic • Thermodynamics

	<p>◆ Able to apply the knowledge in the aircraft maintenance task.</p>
7. Assessment Criteria	<p>The integral outcomes requirement of this UoC are:</p> <ul style="list-style-type: none"> (i) Able to know about the theoretical fundamentals of the subjects. (ii) Able to give a very brief description of the subjects using, as appropriate, typical examples. (iii) Able to apply the knowledge in a practical manner.
8. Remarks	Ref: HKAR-66 Module 2: Physics