



**Faculty of Mechanical Engineering
Universiti Malaysia Pahang**

**BMM4893 Mechanics of Composite Materials
Assignment No.5**

Answer all questions. Important note: This assignment must be *in handwriting*, no MS Word/Latex etc.

Discuss, with aid of a diagram, **FIVE** (5) applications based on the following composite future trends as below. Your discussion must include the strength, environmental effect, sustainability, advantages & disadvantages for each of the applications, and please state the source of references to justify your discussion.

1. Natural fibres
2. 3R – Reduce, Recycle, Reuse of composites
3. Nanocomposites
4. Smart material composites
5. Composite-based Additive Manufacturing