



**Faculty of Mechanical Engineering
Universiti Malaysia Pahang**

**BMM4893 Mechanics of Composite Materials
Assignment No.1**

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

1. What is a composite material?
2. What is an isotropic body?
3. What is a homogeneous body?
4. Are composite materials isotropic and homogeneous?
5. What is an isotropic material?
6. What is a nonhomogeneous body?
7. What is a lamina?
8. What is a laminate?
9. How are hybrid composites classified?
10. What are the limitations of modern composites?
11. With aid of a diagram, discuss the manufacturing processes of the:
 - a. Filament winding
 - b. Vacuum Bagging
 - c. Vacuum Resin Infusion
 - d. Pultrusion
 - e. Compression moulding
 - f. Autoclave