**Assignment 2 MPPM 1113 (25%)**

**In pairs**

**Submission: week 12-14**

**Designing a future mathematics curriculum**

1. There are many curriculum models. Read up on:

Taba Model, Tyler Model, Saylor and Alexander Model, subject/teacher centred design, Learner Centred curriculum, Activity based curriculum, integrated curriculum, core curriculum, hidden curriculum, collateral curriculum, null curriculum and spiral curriculum.

* List and describe the essential points of each curriculum model.
* Consider which elements of each model need to be included within a mathematics curriculum

Marks: 5%

2. Reflect on skills and concepts that ***really need*** to be emphasised within a mathematics curriculum. Think about the mathematics knowledge do students need to know so that they can:

* Function as adults –Example: checking account, buying a house or car, avoiding fraud, banking (dividen) , insurance, KWSP or EPF, future careers, income, saving money, entrepreneurship
* The moral values they need to learn-example: in problem solving-making moral decisions.
* Mathematics content so they can appreciate the abstract nature and functionality of mathematics-Example: algebra, calculating area, differentiation, sets.
* Others.

**Format of the future mathematics curriculum**

1. Foreword-why do we need a new mathematics curriculum?

2. Describe the aims and objectives of the new mathematics curriculum and full list of content to be taught.

3. Learning units (three learning units-one unit for one type of mathematics knowledge.)The learning unit should include:

* Introduction to the content to be taught
* A description of the actual content you want to teach
* Learning activity
* Closure: how to assess students’ learning