**Tutorial (6)**

**Class Teacher: Dr. Raja Rizwan Hussain**

**Course / Subject: GE 105**

**Criteria for Successful Design**

1. You are going to market a new jack stand to be used by amateur (part-time) mechanics to support a car on which they are working.

There are several ideas for solution;

1. A tripod with an adjustable top.
2. A tripod with adjustable legs.
3. A round or square “ box “ that adjusts.
4. An air bag that inflates.
5. A locking jack with square base.
6. A hydraulic jack (A jack is mechanical device used to lift heavy loads)

Generate some criteria. After that, select one idea that you think is the best using rating table. (In Class)

1. Generate at least 5 attributes/criteria and 3 alternative solutions for these problems. After that, select one idea that you think is the best using rating table. (Assignment)
   1. Domestic washing machine.
   2. Commercial trucks.
   3. Lightings.
2. Compare 3 sedan designs and chose which one of them is the best. (Honda Accord, Nissan Altima and Mazda 6). – Do in class