

## Decision making:

- (i) Engineers have to change their decision making qualities according to situation.
- (ii) And it change with time to time and situation to situation
- (iii) So ability to manage different people and things change due to change of situation and environment
- (iv) But on the other hand the machine work with same way as they are in London and as they are in Lahore

## (Steps of decision making)

- (i) Defining the problem
- (ii) Collection of facts and information to that problem related to that problem.
- (iii) Defining the selection criteria based on knowledge experience requirement and expectations.
- (iv) Give the weightages of the importance to selection criteria based on your own priorities.
- (v) Identify the possible option available.
- (vi) Compare all the merits and demerits of options.
- (vii) Select the best option.

## Multiple criteria decision making matrix

- (i) The more factors we angles/criteria parameters we add in our decision making process the more are the chance that our decision will refined.
- (ii) But in reality the more factors we add the more confused we become in our decision making.
- (iii) Thus multiple criteria decision making matrix is developed to compare multiple option against multiple criteria.

### How to draw matrix

	corolla	civics	lancer	Mercedes	liana
5 Resale	5*5 (25)	4*5 (20)	2*5 (10)	1*5 (5)	1*5 (5)
4 Fuel efficiency	4*4 (16)	4*4 (16)	3*4 (12)	2*4 (8)	4*4 (16)
3 comfort	4*3 (12)	5*3 (15)	3*3 (12)	5*3 (15)	2*3 (6)
5 look	4*5 (20)	5*5 (20)	3*5 (15)	5*4 (20)	2*5 (10)
5 safety	4*5 (20)	4*5 (20)	4*5 (20)	5*5 (25)	3* (15)
Total	(93)	(96)	(66)	(78)	(56)

