

ME 247
(Engineering Mechanics-Statics)

Md. Abdul Hamid

Assistant Professor
Department of Mechanical Engineering
BUET

Engineering Students



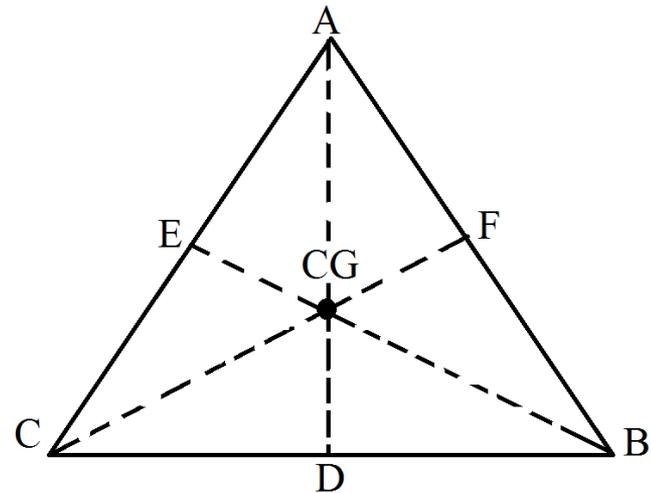
What my society thinks I do



What my relatives think I do



What I thought I will be doing



What I Actually Do

So, what is engineering?

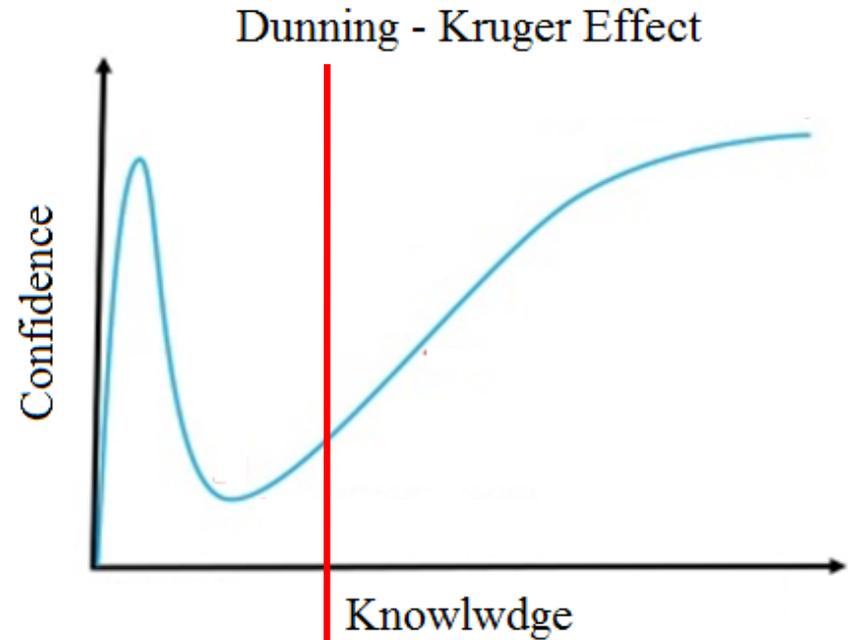
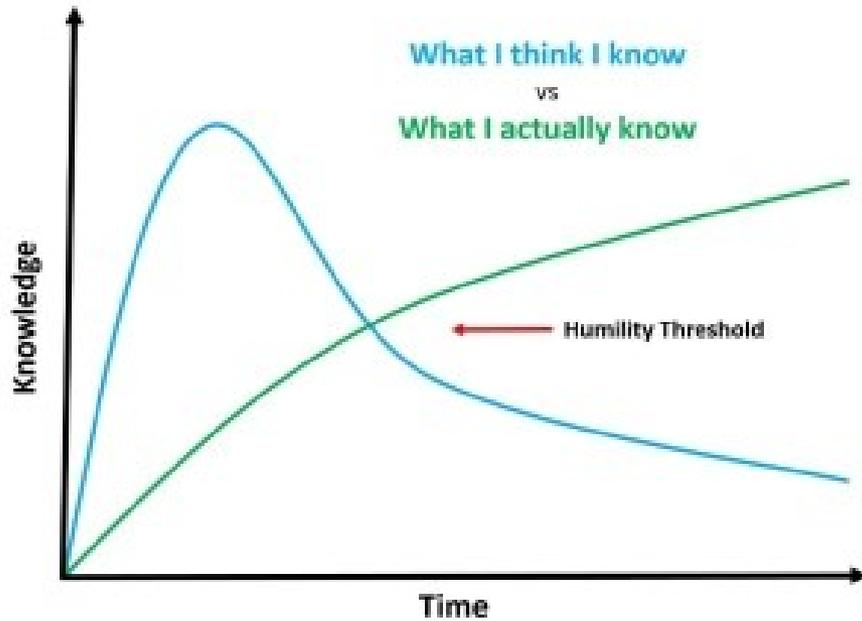
Some confusing terms:

- | | |
|----------------------|--|
| 1. Scientist----- | Prime objective is Science |
| 3. Mechanic ----- | Prime objective is Application |
| 3. Technologist ---- | Little Science + little Application
(Interfacing) |

** Engineering = Science + Application + Safety + Money

They all are different from each other

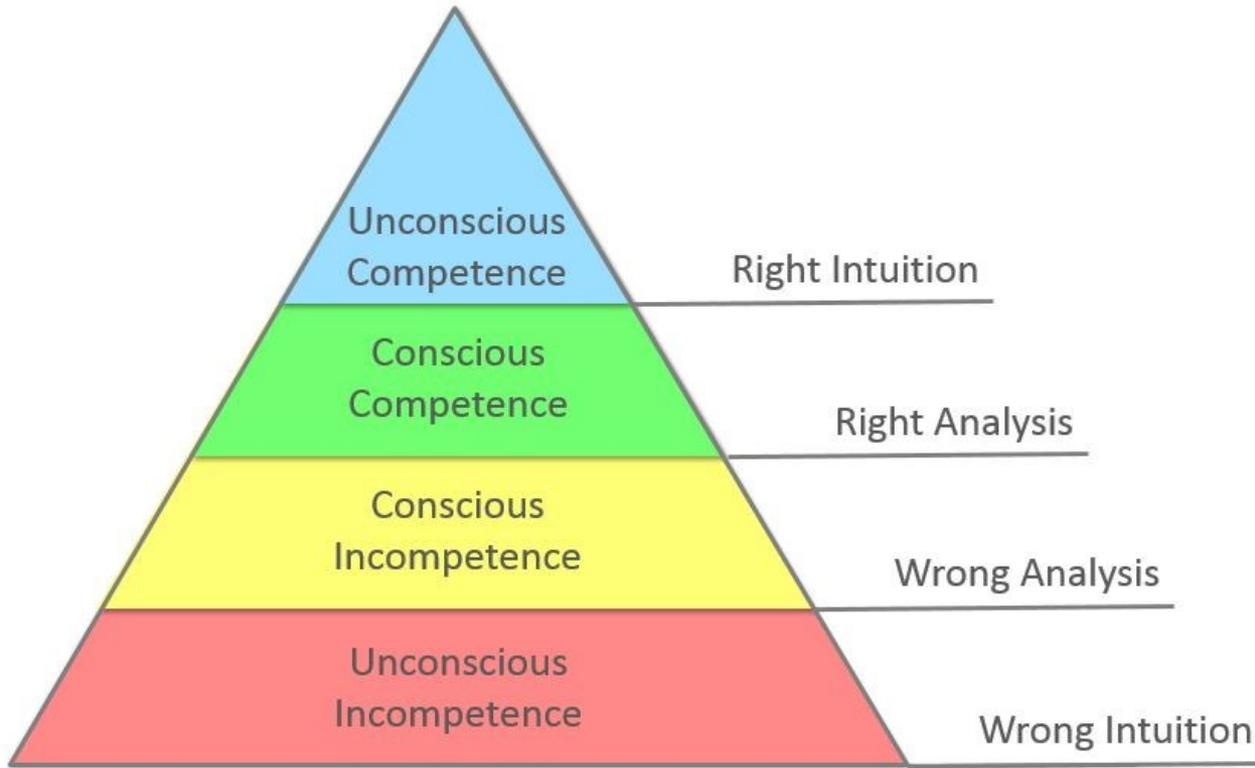
Dunning-Kruger Effect



Maximum obtainable
knowledge in a human
life span

There is a huge difference between the '**May Be**'s of experienced and inexperienced human

Why the two **May Be**'s are different?

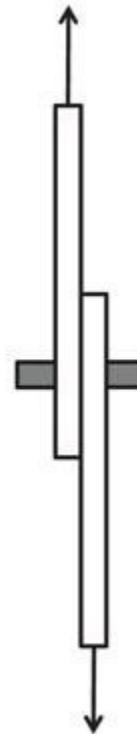
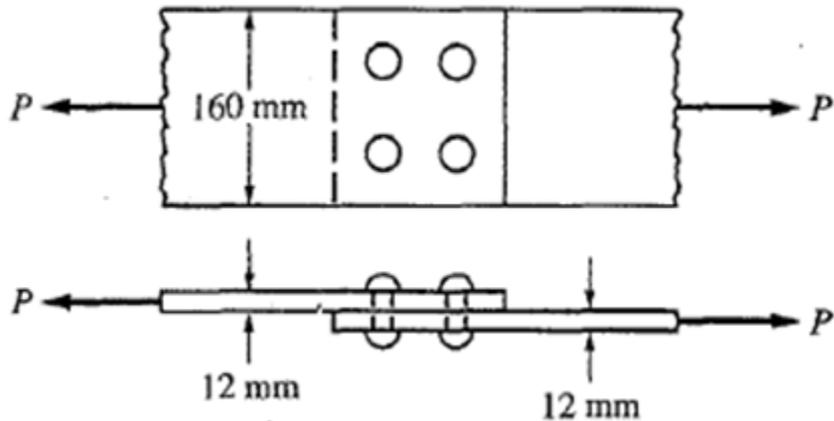
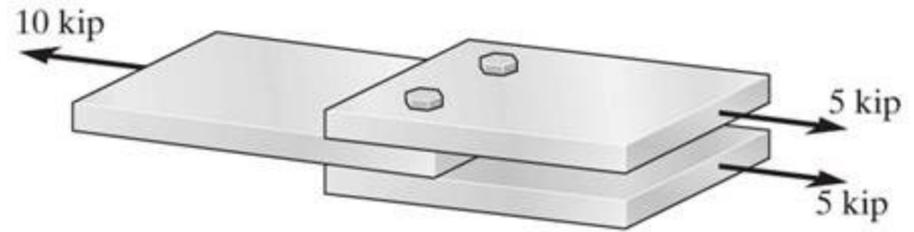
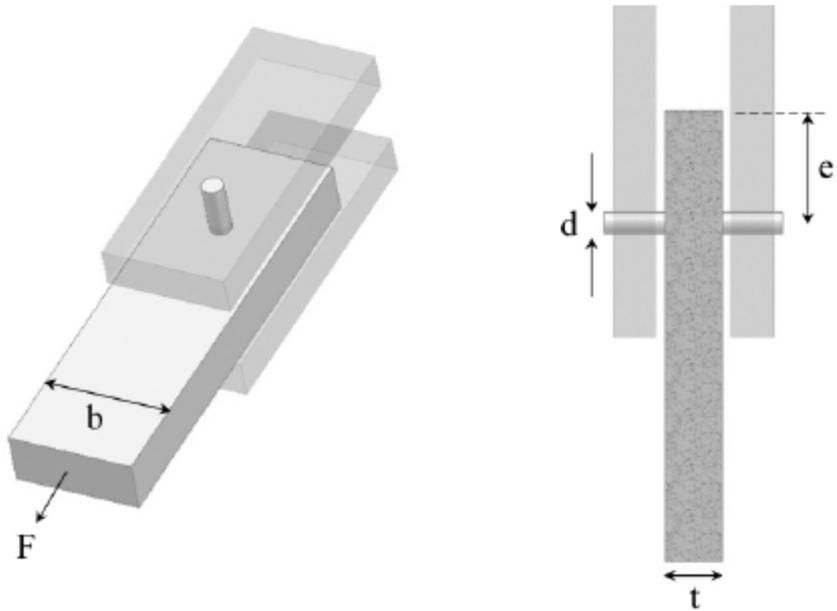


Hierarchy of Competence

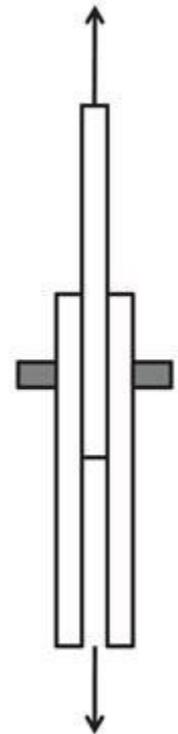
Kruger J. and Dunning D., “Unskilled and unaware of it: How difficulties in recognizing one’s own incompetence lead to inflated self-assessments”, *Journal of personality and social psychology*, 77 (6), pp 1121-1134, 1999



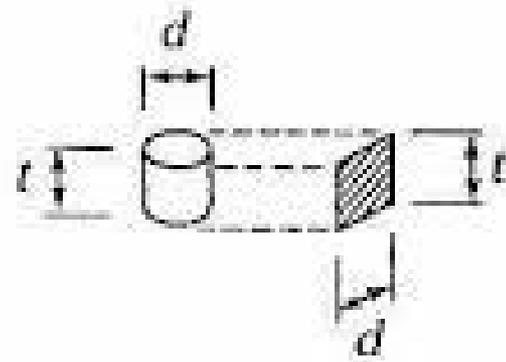
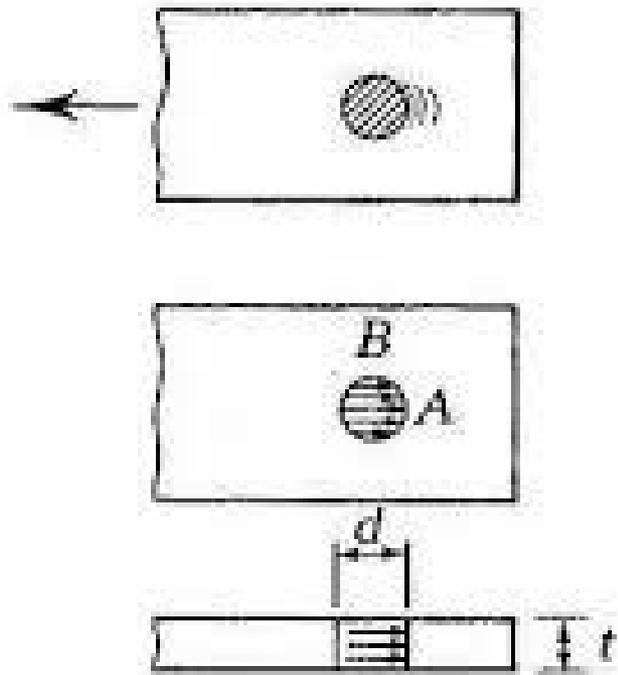
Bolt/Rivet Joints



a) Single-Shear



b) Double-Shear



Universal Joint

