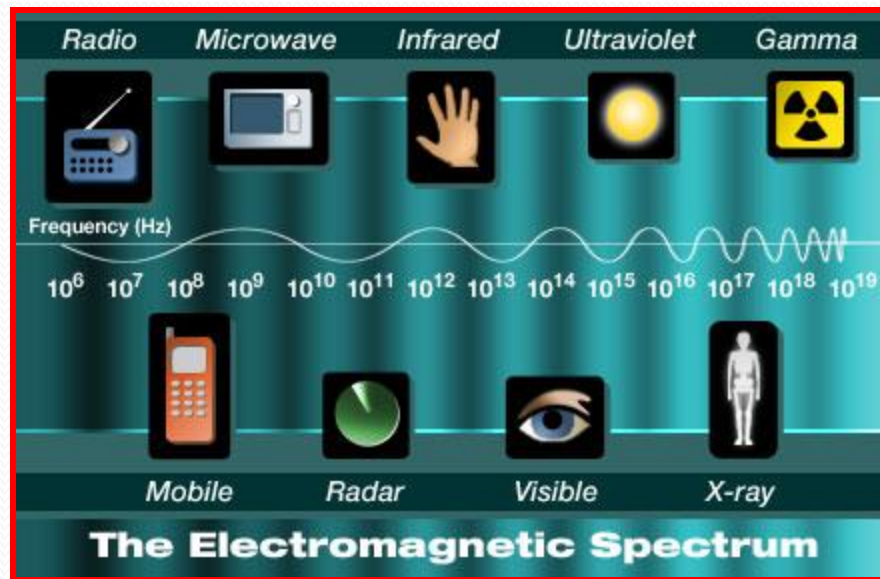


Microwave Theory I

Important Questions:

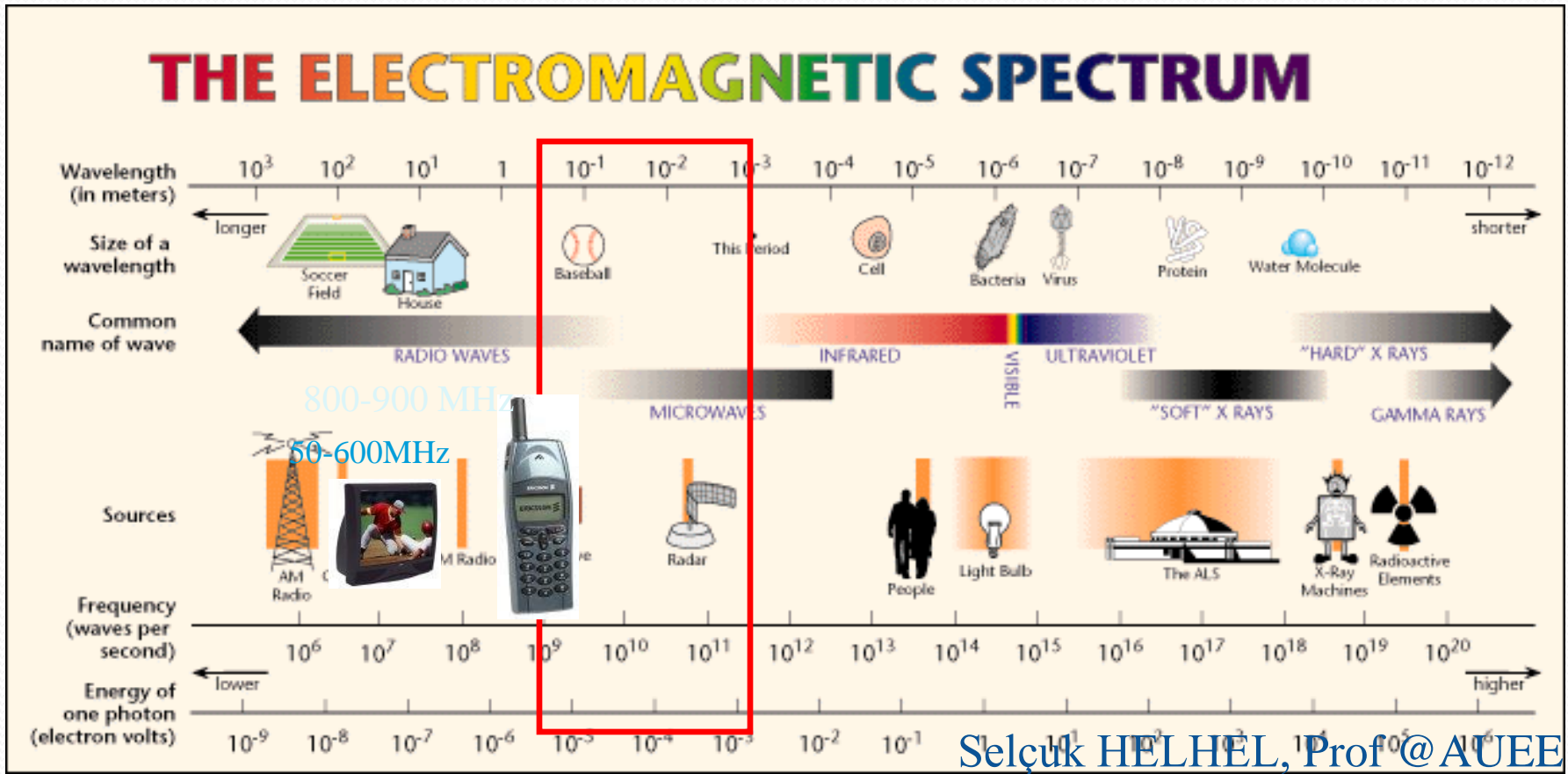
1. Why do EEs need take this course?
2. Why and where does classical circuit theory/analysis fail?
3. What is electromagnetic spectrum?
4. What are the connections between MW theory and other subjects in electronics?
5. What is called as 'micro'? Why?
6. What is the meaning of 'log' function and decibel definition?

Electro Magnetic Spectrum



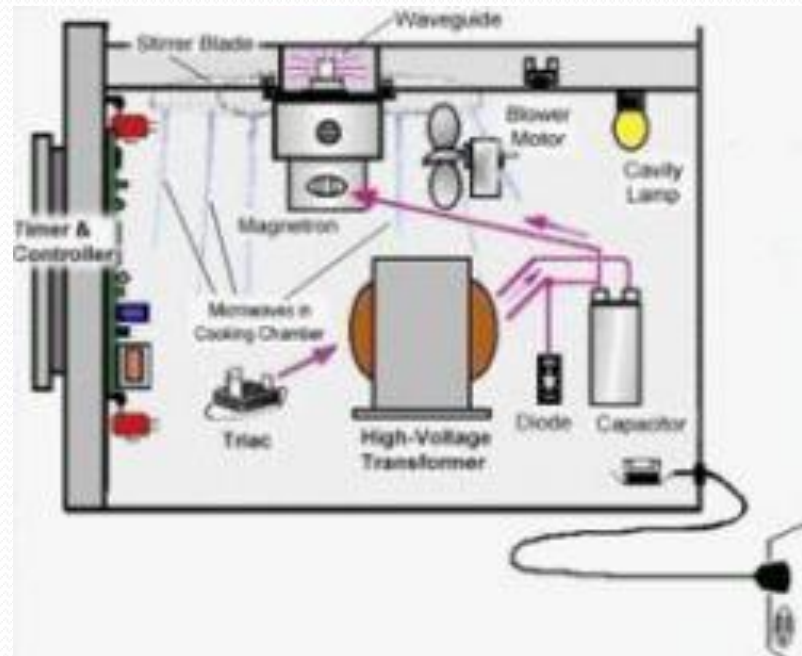
What is a “Microwave?”

- Part of the RF spectrum
 - 1 - 300 GHz
- A microwave oven



Uses of Microwaves

- Cooking



Uses of Microwaves

- Communication

- Radios
- Satellites



Uses of Microwaves

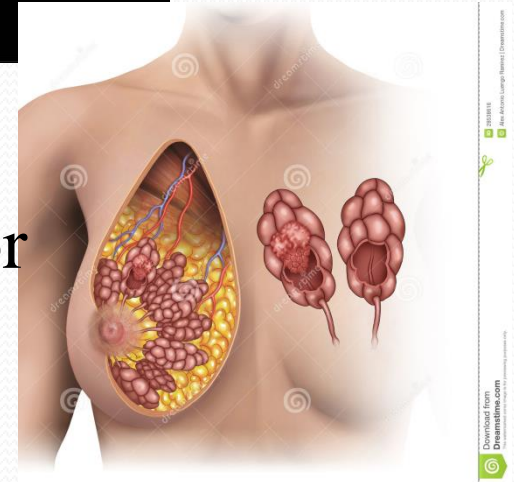
- Medicine



- Imaging



Breast Tumor
dedection



Uses of Microwaves

- Drying

Woods



Foods



Uses of Microwaves

Disinfection
of bactories



Pasteurisation of
packaged products



Uses of Microwaves

- Astronomy

Is it basically a science itself ?

Deploying new technologies, itself?

What is behind of it?

