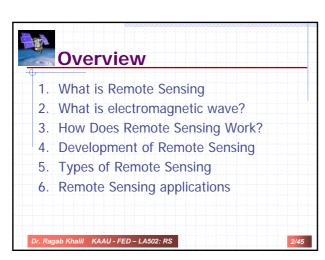
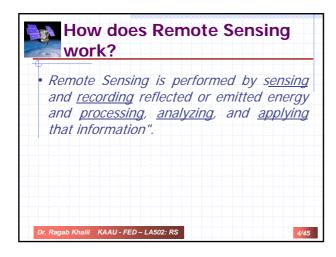
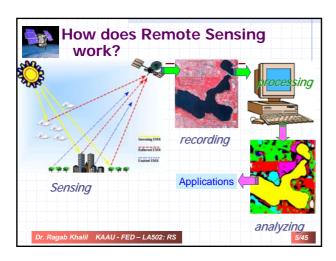
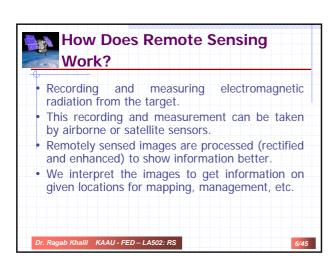
LA502 Special Studies Remote Sensing Introduction to Remote Sensing Dr. Ragab Khalil Department of Landscape Architecture Faculty of Environmental Design King AbdulAziz University Room 103

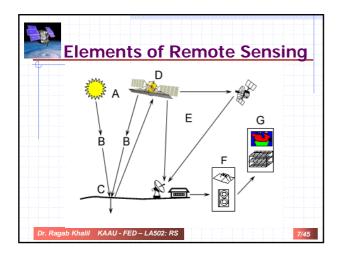


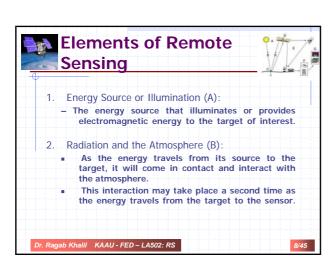
• Remote sensing is the science (and art) of acquiring information about the Earth's surface without actually being in contact with it. • A technology used for obtaining information about a target through the analysis of data acquired from the target at a distance.

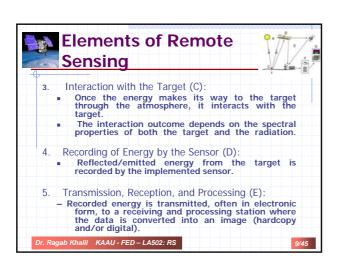


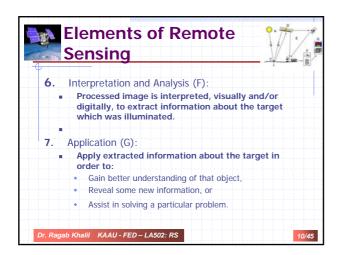


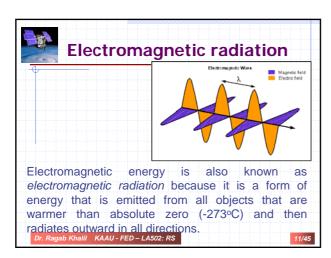


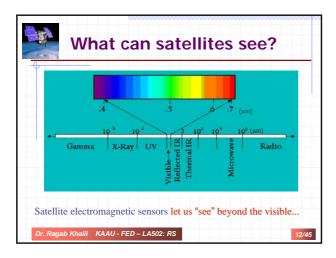












The electromagnetic spectrum There are several regions of the electromagnetic spectrum which are useful for remote sensing. Visible = 0.4 - 0.7 µm NIR = 0.7-1.3 µm MIR=1.3-3 µm Thermal = 3-14 µm Microwave = 1mm-1m Wavelength in µm, 1 µm=1*10-6 meter

Development of Remote Sensing The term "Remote Sensing" was coined in the early 1960's by geographers in the Office of Naval Research of USA to apply to the information derived from photographic and non-photographic instruments. **Dr. Ragab Khalil KAAU-FED-LAS02: RS** 14/45



