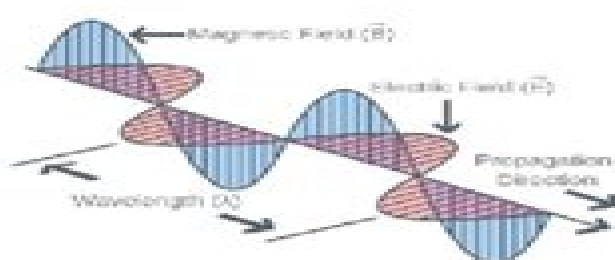


Chapter Two: Atomic Theory

(I) Topic 2.1: Atomic Structure

What are electromagnetic waves ?	Electromagnetic waves are oscillations (wave cycles) of an electro-magnetic field that propagates through space at the speed of light. → $F(x) = A \sin [k(x)]$
- What are the two components of electromagnetic wave oscillations?	Electric Field Oscillation (E)* Magnetic Field Oscillation (B)  * For this course, only the Electric Field (E) will be relevant.
- What are examples of electromagnetic waves?	Light, X-Rays, Radio Signals...etc.
How do electromagnetic waves relate to the atomic structure and properties of the atoms that makeup molecular compounds?	The atomic structure and properties of atoms are determined through the way <i>they interact</i> with electromagnetic waves.
What is the Electric Field of electromagnetic waves?	It is a simple periodic wave characterized by a certain wavelength [letter lambda (λ)] and frequency [letter nu (ν)]. The Electric Field is an electric vector that changes with "x" or distance/time at which the electromagnetic wave has travelled.
What are Wavelengths ?	The wavelength of periodic waves refers to the distance between two maximum (or two closest equivalent) points of the wave. - Usually expressed in units of distance (nanometers) [$1 \text{ nm} = 10^{-9} \text{ m}$]
How is Amplitude (A) an important	The amplitude or "height" from the axis to the

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NRL Review ,1998 *An Introduction to the Study of the Compounds of Carbon; Or, Organic Chemistry* Ira Remsen,1885 **Cumulated Index Medicus** ,1978 **English Mechanic and Mirror of Science and Art** ,1894
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