School Name: School of Health Sciences **Program Name: BRIT**
Course Title: Basic Physics Including Radiological Physics
Course Code: BHRI-301
Semester: III

- What is force?
- What is resistance?
- Define electromagnetic wave.
- Write main features of x-ray?
- What is derived quantity.
- Write short note on units and measurement of physical quantity.
- Write short note on coulomb's law.
- Explain Newton's law of cooling and perfect black body.
- Explain the HVL measurement and heel effect.
- Write down the properties of x-ray.
    - Explain the term (i) power factor (ii) peak value of current and voltage (iii) electric induction.
- What is electromagnetic wave and spectrum? Explain its importance in Maxwell's equations.
- Explain the interaction of ionizing radiation with matter.
- What is power?
- What is AC circuit?
- Define temperature and heat.
- Define gamma radiation.
- Define binding energy.
- Explain in brief electromagnetic radiation and spectrum.
- What is the difference between electricity and magnetism?
- Explain sound and interference of sound wave.
- Explain added and inherent filtration.
- Write short note on mass energy equivalence.
- What is nucleus? Discuss the important parameters of atomic structure.
- Explain the concept of heat. Also define the terms heat capacity and specific heat.
- Explain the concept of x-ray and its production.