KINGDOM OF SAUDI ARABIA
AL IMAM MOHAMMED IBN SAUD ISLAMIC UNIVERSITY
COLLEGE OF SCIENCE
DEPARTMENT OF PHYSICS

المملكة العربية السعودية
جامعة الإمام محمد بن سعود الإسلامية
كلية العلوم
قسم الفيزياء

Learning Domains and Learning Outcomes:

Knowledge:

- **Describe of the core knowledge in physics (major premises of classical mechanics, electricity & magnetism, optics, thermal physics, electronics, modern physics, etc).**
- **Recognize the impact of physics and science on society.**
- **State the basic skills necessary for the application of mathematical methods in physics.**
- **Recognize the analytical and numerical approaches in modeling and simulation processes.**

Cognitive Skills:

- **Develop skills in problem solving, critical thinking and analytical reasoning.**
- **Appraise fundamental physical theories in laboratory.**
- **Execute a significant graduate research project.**

Interpersonal Skills & Responsibility:

- **Show ability to work independently and as a part of group.**
- **Demonstrate responsibility for self-learning.**

Communication, Information Technology, Numerical:

- **Demonstrate skills using computer, network and software packages.**
- **Illustrate effective written and oral communication skills, especially the ability to transmit complex concepts in a clear and concise manner.**

Psychomotor:

- **Operate different instruments and handle laboratory equipment.**