



مركز الاعتماد
وإضمان الجودة
ACCREDITATION & QUALITY ASSURANCE CENTER



The University of Jordan

Accreditation & Quality Assurance Center

COURSE Syllabus

**Radiation Detection and
Measurements 0302765**

Physics Department

Radiation Detection and Measurements

Course Title: Radiation Physics
Course Number: **0302765**
Credit Hours: 3

Instructor: Prof. Jamal Sharaf
Office: M202
Office Hours: Sunday & Tuesday 1- 2 pm

Textbook: Radiation Detection and Measurements, 2nd edition, 1989,
by **Knoll**.

References: Atoms, Radiation and Radiation Protection, 3rd edition,
2007, by **James E. Turner**.

Introduction to Health Physics, 3rd edition, 1996, by
Herman Cember.

Course Objective

- 1) Understanding the fundamentals of radiation physics including the production of ionizing radiation and its interaction with matter.
- 2) Discussing topics in radiation dosimetry, instrumentation, applications and radiation protection.
- 3) Introducing examples on chemical and biological effects of radiation.
- 4) Developing self-learning and problem solving.

Assessment

M. Term Exam	40%
Home Work	20%
Final Exam	40%