

AL- HIKMAH UNIVERSITY, ILORIN,  
 FACULTY OF NATURAL AND APPLIED SCIENCES  
 DEPARTMENT OF PHYSICAL SCIENCES  
 B.Sc PHYSICS WITH ELECTRONIC PROGRAMME  
 2019/2020 ACADEMIC SESSION

Lecture Course outline for:

Course Code: PHY338

Course Title: Medical and Nuclear Physics

2Credit Units, 12 lecture periods (8 -10am, Tuesday)

Pre-requisite: PHY102

Students should note that, for each lecture, there is going to be at least 10minutes post lecture test.

Schedule:

Lecture Period	DATE	TOPIC	Course lecturer
1	25th Feb, 2020	Production of Isotope	ONI, Adewale Adeola
2	3rd Mar, 2020	Nuclear properties, nuclear size, nuclear masses;	ONI, Adewale Adeola
3	10thMar, 2020	Nuclear-nucleon scattering; the deuteron	ONI, Adewale Adeola
4	17th Mar, 2020	Radioactivity, Ionizing and non-ionizing radiations	ONI, Adewale Adeola
5	24thMar, 2020	Nuclear models. Radio-active decay: alpha, beta, gamma rays	ONI, Adewale Adeola
6	31stMar, 2020	Nuclear fission. Nuclear fusion	ONI, Adewale Adeola
7	7th Apr, 2020	First Test	ONI, Adewale Adeola
8	14th Apr, 2020	Radiotracers: Definition, examples and uses	ONI, Adewale Adeola
9	21st Apr, 2020	Nuclear Medicine: Definition ,steps and stages Radiotherapy: Definition and uses. X-ray equipment, production , properties and spectrum	ONI, Adewale Adeola
10	28th Apr, 2020	Nuclear Medicine: Definition ,steps and stages Radiotherapy: Definition and uses. X-ray equipment, production , properties and spectrum continues	ONI, Adewale Adeola
11	5th	Nuclear Medicine: Definition ,steps and stages	ONI, Adewale Adeola

	May, 2020	Radiotherapy: Definition and uses. X-ray equipment, production , properties and spectrum continues	
12	12th May, 2020	Final test	ONI, Adewale Adeola
13	19th May, 2020	Revision	ONI, Adewale Adeola