



Jordan University of Science and Technology
Faculty of Engineering
Nuclear Engineering Department

NE201 Nuclear Technology Improvement

First Semester 2019-2020

Course Catalog

1 Credit Hours. One credit hour (1 h lectures). Ethical issues arising from the development of nuclear technology, and our ability to address, deal, and resolve them. Cases studies will be emphasized.

Text Book

Title	THE ETHICS OF SCIENCE: An Introduction
Author(s)	David B.Resnik
Edition	1st Edition
Short Name	Ref#1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref#2	Handouts	Instructor	1st Edition	

Instructor

Name	Mr. Neil Abu Ennab
Office Location	E2 L-2
Office Hours	Sun : 10:30 - 11:30 Mon : 08:00 - 09:00 Tue : 10:30 - 11:30 Tue : 11:30 - 12:30 Tue : 12:30 - 13:30 Thu : 10:30 - 11:30 Thu : 11:30 - 12:30
Email	nrabuennab@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Sun : 11:30 - 12:30 Room: LAB Section 3: Lecture Time: Tue : 14:30 - 15:30 Room: E2117

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Introduction	From Ref#2
Weeks 2, 3	Engineering Ethics	From Ref#2
Weeks 4, 5	Development of Nuclear Technology	From Ref#2
Weeks 6, 7	Nuclear Ethics	From Ref#2
Weeks 8, 9	Developing a Code of Ethics	From Ref#2
Weeks 10, 11, 12	Implementing a Code of Ethics	From Ref#2
Weeks 13, 14, 15	Examples of Ethical Dilemmas in the Nuclear Industry	From Ref#2

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Ability to function on multidisciplinary teams [15]	25%	
Ability to communicate effectively [13]	25%	
An ability to recognize ethical responsibilities in engineering situations and ability to make informed judgments. [14]	50%	

Relationship to Program Student Outcomes (Out of 100%)						
1	2	3	4	5	6	7
		25	50	25		

Evaluation	
Assessment Tool	Weight
midterm exam	40%
Final exam	60%