



## **(Curriculum Vitae in Brief)**

### **Personal details**

**Full Name:** Abubaker Ali Yousif Alghoul

**Date of Birth:** 12/3/1975

**Place of Birth:** Sebha City

**Social Status:** Married

**Nationality:** Libyan

**Qualifications:** PhD, MSc, and BSc.

**Occupation:** Faculty member (Lecturer) at Faculty of Science, Sebha University.

**Current Position:** Lecturer at Physics Department.

### **Education**

**Dip** in English, Wall Street Institute, Malaysia, (2014).

**PhD** (Nuclear Science), National University of Malaysia, Malaysia, (2013).

**MSc** (Nuclear Science), Benghazi University, Libya, (2006).

**BSc** Degree (Physics), Sebha University, Libya, (1998).

### **Languages**

Arabic and English

### **Teaching Experience for Pre University Level**

1- Tutor of General Physics for First Secondary Level, (1998).

2- Tutor of General Physics for Third Secondary Level, (1999).

### **Teaching Experience for University Level**

No.	Theoretical Courses	Level	No.	Laboratory Courses	Level
1	Introductory Mechanics	Undergrad.	1	General Physics Lab.	Undergrad.
2	Intermediate Mechanics	Undergrad.	2	Mechanics Lab.	Undergrad.
3	Special Theory of Relativity	Undergrad.	3	Electricity Lab.	Undergrad.
4	Electricity & Magnetism	Undergrad.	4	Sound Lab.	Undergrad.
5	Atomic & Molecular Physics	Undergrad.			
6	Nuclear Physics	Undergrad.			
7	Quantum Mechanics	Undergrad.			

### **Supervised Undergraduate Projects**

- 1- Investigating Damping Factor for Spring Systems by Simulation of Vibrational Motion in Air, Water and Oil of These Systems **(2018)**.
- 2- Investigating Exposure Factors of Diagnostic X-Rays Applied at Al-Hilal Al-Ahmar Radiographic Medical Center in Sebha City **(2017)**.
- 3- Studying Damping Factor for Spring Systems by Simulation of Vibrational Motion in Air **(2017)**.
- 4- Investigating Exposure Factors of Diagnostic X-Rays Applied at in Sebha Radiographic Medical Center **(2016)**.
- 5- Determine Scattered Rate of X-Rays in Radiographic Diagnostic Room at Bin Khaldon Medical Center, **(2016)**.
- 6- Determine Scattered Rate of X-Rays in Radiographic Diagnostic Room at Sebha Medical Center, **(2015)**.
- 7- A Unified Approach for Quantifying the Effectiveness of High-LET Radiation on Chromosomes at Lower Doses Region, **(2008)**.
- 8- The Influence of Air's Temperature Variation on the Velocity of Sound in Air, **(2007)**.

### **Symposia Attended**

- 1- End World Year of Physics Symposium, Benghazi University, Libya, (2005).
- 2- Postgraduate Symposium (Positives and Negatives), Benghazi University, Libya, (2006).
- 3- Eleventh Postgraduate Symposium, National University Malaysia, Malaysia, (2011).

4- Forth the International UKM-KAIST Summer School on Nuclear Power Science and Engineering, National University Malaysia, Malaysia, (2012).

### **Published Papers**

#### **i) Journal Publications**

“Mathematical Evaluation of Entrance Surface Dose (ESD) for Patients Examined by Diagnostic X-Rays”, *Open Access Journal of Science*, 1: 1, (2017).

“Measuring Scattered X-Ray Rate at Medical Diagnostic Room Utilizing Geiger-Muller Counter”. *International Journal of Nuclear Energy Science and Engineering*, 7, (2017).

“Alternative Mathematical Form for Determining the Effectiveness of High-LET Radiations at Lower Doses Region”. *International Journal of Radiology and Imaging Technology*; 2:009, (2016).

“Investigation of the Dependence of Inactivation Coefficient on Pertinent Physical Quality Parameters to Low Doses Ionizing Radiations”. *Current Radiopharmaceuticals*, 5(1): 34-37, (2012).

“Physical Parameters Related to Quantify the Quality of Effectiveness of Charged Particles at Lower Doses”. *World Journal of Nuclear Science and Technology*, 1: 1-5, (2011).

“Physical Quality Parameters Affect Charged Particles Effectiveness at Lower Doses”. *World Applied Sciences Journal*, 11(10): 1225-1229, (2010).

“Identification the Specific Relationships Among Physical Parameters which Use to Quantify Inactivation Effect of Charged Particles at Lower Doses”. *Physical International*, 1(2): 94-98, (2010).

“Dicentric Aberration Damage as Bio-Dosimeter Model”. *Journal of Sebha University: Applied Science*, 7(2): 28-31, (2008).

#### **ii) Conference Publications**

“Alternative Physical Quality Parameters Influence Effectiveness of Lower Doses Ionizing Radiation”. *AIP Conference Proceedings*, (2011).

“Physical Parameters Influence the Effectiveness of Ionizing Radiation at Low Doses”. *International Conference on Physics Science and Technology*, China, (2010).

“Biological Risk Coefficients for Inactivation and Chromosome Aberration in Mammalian Cells”. *Regional Annual Fundamental Science Symposium*, Malaysia, (2010).

### **Interested Fields**

**1) Radiation Biophysics, 2) Radiation Dosimetry, 3) Radiation Protection**