

Curriculum Vitae

Nada Farhan Kadhim

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PERSONAL SUMMARY:

- Full Professor.
- Mustansiriyah University / College of Science/Physics department

EDUCATION:

- Ph.D. #1: radiation physics /Al-Mustansiriyah University/College of Science/ physics department /2005
- M.Sc. #2: physics of laser/ University of Technology/ applied Sciences/1995
- B.Sc. #3:material science/ University of Technology/ applied Sciences/1991

ACADEMIC /TEACHING EXPERIENCE:

- #1: radiation physics/ health physics/ medical optics.
- #2: medical physics/ medical instruments/ laboratory instruments.

COURSES TAUGHT:

Undergraduate	Graduate
Heath physics	Radiation physics
Medical physics	nuclear physics
Medical optics	
Medical instruments	
Laboratory instruments	
General physics	

PROFESSIONAL AFFILIATIONS:

- Former director of the Division of Quality Assurance

PUBLICATIONS:

1. Growth of urea crystal from aqueous and alcohol solutions and study its structural and spectral properties.
2. Study the structural and spectral properties of bismuth germanium oxide crystal.
3. Effect of focal sizes in X-ray tube on radiographic image.
4. Radiation Contamination of soil in Baghdad governorate.
5. Radon concentrations measurement in the air inside the homes.
6. Determine the radioactive elements in some agricultural crops
7. Determination of Radon and Thoron concentration in different kinds of local and imported Tobacco samples.
8. Alpha emitters in local and imported agriculture products.
9. Determination of alpha particles in the blood of smokers.
10. Detection of radionuclides in some samples of human tissues.
11. The study of natural radioactivity in some samples of tobacco imported into Iraq from unknown origins.
12. Measurement of Radon Gas Concentration in Soil and Water Samples in Salahaddin Governorate-Iraq Using Nuclear Track Detector (CR-39).
13. Evaluation of Annual Individual Effective Dose in Soil Samples of Fuel Fabrication Facility (FFF) at Al-Tuwaitaha Nuclear Site.
14. Indoor risk assessment of radon gas in the science college buildings-University of Mustansiriyah using RAD-7 detector.
15. Natural radioactivity and associated dose rates in soil samples in the destroyed fuel fabrication facility, Iraq.
16. Measurement of natural radioactivity in Al-Dora refinery by using (HPGe) detector.
17. Studying different etching methods using CR-39 nuclear Track detector.
18. Specific activities and radiation hazard parameters calculations of natural radionuclides in Al-Mustansiriyah university soils using NaI(Tl) detectors.
19. Measurement of natural radioactivity in Al-Dora Refinery by using (HPGe) detector.
20. study and analysis of axes and paragraphs evaluating the performance efficiency of the faculty for the academic year 2011/2012 form and design proposed by the alternative form.
21. Development of alpha tracks measurement with thermal oven as an etching technique for SSNTDs.
22. Optimum heating techniques in etching LR-115 nuclear track detector.
23. Effects of Changing the Exposure Time of CR-39 Detector to Alpha Particles on Etching Conditions.
24. Radiation hazards of the moassel consumed in Baghdad/Iraq using NaI(Tl) gamma spectroscopy.

25. Correlation between the Track Density and Absorbance of Alpha Particles using CR-39 Detectors from UV-Visible Spectrum.
26. Determination of Alpha Rates Emitted from Animal Bones Using CN-85 Nuclear Track Detector.
27. Determination of Track Density of Animal Bones using CN-85 Detector.
28. Radiation hazard of Chemical Fertilizers used in Growing Agriculture Crops in Iraq.
29. Estimation of the Radiation Hazards Indices of Organic Fertilizers Using NaI(Tl) Gamma Spectrometer.
30. Surface Contamination and Dose Rate Verification of Fertilizers common in Iraqi Plantations using Rad-Eye B20 Detector.
31. Transfer factor of natural radionuclides from soil to silhouette plants using gamma spectroscopy.
32. Radiation Hazards Indices of Silhouette Plants in Spring and Summer Seasons.
33. Study the Effect of Gamma Rays on the Spleen and Liver of Albino Male Mice.
34. 31. Effects of External Radiation Exposure on some Hematological Parameters of Hospitals Workers Staff.
35. Safe ^{241}Am -Be Neutron Source from Alpha Point Resource.
36. Investigation of the favorable etching time of CN-85 nuclear track detector.
37. Measurement the natural radioactivity of Chicken meat samples from Karbala governorate.
38. Measurement the natural radioactivity of Sheep meat samples from Karbala governorate.
39. Activity concentration and radiometric hazards in meat and bone cow samples from Karbala governorate.
40. Hazard Indices and Age Group Parameters of Powder Milk Consumed in Iraq.
41. The plant transfer factor of natural radionuclides and the soil radiation hazard of some crops.
42. Determining the natural radioactivity of spices widely used in Iraq.
43. Comparison of Three Techniques for Measuring Radon Gas.
44. The exposure of silhouette plants to radon gas as indoor air purifiers.
45. Transfer factor of natural radionuclides from soil to silhouette plants using gamma spectroscopy.
46. Determination of Uranium concentration in males and females teeth in Samawa city using Lexan Detector.
47. Exposure and etching time effects on the fission track density in CR-39 detectors using teeth samples.
48. Effect of etching time on the track density of fission fragments human teeth samples with Lexan detector.
49. Assessment of ^{222}Rn gas concentrations in Educational laboratories of Department Physics in the College of Sciences Al-Mustansiriya University.

50. Detecting and Counting the Tracks Registered Nuclear Based on the Fast Marching Method.
51. Utilizing plasma interaction as a novel etching technique for CR-39 nuclear track detector.

PROFESSIONAL DEVELOPMENT

- **Certifications.**

1. Basics of laser and plasma.
2. Run acidification hardware maintenance services.
3. Radiation protection.
4. Tumors, cancer and immunology.
5. How to use the calculator and copyright star word system.
6. Teaching methods to newly appointed.
7. Arab training course in laser applications web design.
8. The basics of networking and networking.
9. Browsing via the Internet and create e-mail.
10. Thirteenth qualifying session in the use of computer.

- **Conferences.**

1. Sixth Conference of the foundation of technical Education.
2. Seventh Conference of the foundation of technical Education.
3. Eighth Conference of the foundation of technical Education.
4. Tenth Congress of the foundation of technical Education.
5. Fifth Conference of the use of nuclear techniques in environmental studies.
6. Sixth Conference of the use of nuclear techniques in environmental studies.
7. Eleven Conference of the foundation of technical Education
8. School cimpa-unisco, recent topics in geometric analysis.
9. Twelfth Conference the foundation of technical Education.
10. Third International Scientific conference on nanotechnology and advanced materials physics conference.

- **Workshops.**

1. School cimpa-unisco, recent topics in geometric analysis.