Al-Hussein Bin Talal University

Faculty Member – Brief Curriculum Vitae

1. Personal Information:

Full Name: Dr. Ahmed Qwasmeh

Faculty / Department: Faculty of Science / Physics Department

Academic Rank: Associate Professor

Area of Specialization: Environmental Physics / Radiation & Radioactivity

Date of Appointment: 2012

Date of Current Rank: 2023

Email: qwasmeh@ahu.edu.jo

2. Academic Qualifications:

Qualification	Specialization	University / Country	Graduation Year
Ph.D. in Environmental Physics (cum laude, DAAD-funded)	Environmental Physics	University of Bremen, Germany	2008
M.Sc. in Physics (Average 90.6%, Excellent)	Physics	Yarmouk University, Jordan	2002
B.Sc. in Physics (Average 80.8%, Very Good)	Physics	Yarmouk University, Jordan	1999

3. Academic and Administrative Experience:

Rank / Position / Assignment	Institution / Unit	Period
Associate Professor	Al-Hussein Bin Talal University – Physics Department	2023 – Present
Head of Physics Department	Al-Hussein Bin Talal University	2014 – 2016
Assistant Professor	Al-Hussein Bin Talal University – Physics Department	2012 – 2023
Postdoctoral Researcher	Institute of Environmental Physics, University of Bremen, Germany	2008 – 2011
Laboratory Tutor – Practical Environmental Measurement Techniques	Institute of Environmental Physics, University of Bremen, Germany	2004 – 2008
Teacher: Physics, Science and Mathematics	Irbid, Jordan	1999 – 2002
Laboratory Tutor – Mechanics Lab; Electricity and Magnetism Lab	Yarmouk University, Irbid, Jordan	2000 – 2001

4. Teaching and Academic Supervision:

Key Courses Taught: General Physics I; General Physics II; Radiation Physics; Thermodynamics; Electrodynamics I &II; Modern Physics, ; Quantum Mechanics I & II; Classical Mechanics I & II; Introduction to Astronomy; Nuclear Physics; General Physics 1 laboratory; General Physics 2 laboratory; Intermediate Physics laboratory; Advanced Physics laboratory

Master's Theses Supervised (Number): 0

Doctoral Dissertations Supervised (Number): 0

5. Scholarly Publications and Research Projects:

• **Peer-Reviewed Journal Articles: Total** 7 publications (7 journal articles) **| Last Five Years** 5 journal articles (2021–2024) **| Books / Chapters / Patents** 0

• **Citations:** 20 **h-index:** 2 **Database:** Google scholar **Date Updated:** October 2026

• Three Selected Publications (Title, Journal, Year, DOI):

1. Radiation dose and lifetime risk for radiation-induced cancer due to natural radioactivity in tap water from Jordan — Radiation and Environmental Biophysics, 2023 — DOI: 10.1007/s00411-023-01018-3

2. Assessment of natural radioactivity in soil and olive mill pomace utilizing NaI(Tl) gamma-ray spectrometry and low background alpha/beta counting system — Vol. 56, Issue 5, pp. 1925–1931, 2024

3. Effects of gamma irradiation on optical properties of poly(ethylene oxide) thin films doped with potassium iodide — Journal of Composites Science, 5(5), 2023

• **Key Research Project / Grant (Funder, Role, Year):** Ph.D. research funded by DAAD (German Academic Exchange Service), University of Bremen, 2004–2008; sediment chronology with ^{210}Pb nuclear spectroscopy for Freie Universität Berlin (6 cores, 120 samples, 2006) and University of Bremen (2 cores, 48 samples, 2005)

6. University and Community Service and Achievements:

• **Key Committees / Accreditation and Quality Initiatives / Community Service:**

Head of Physics Department, Al-Hussein Bin Talal University (2014–2016)
Teaching and laboratory supervision in the Physics Department
Participation in various committees within the Physics Department and Science Faculty.
Participation in faculty development courses at Al-Hussein Bin Talal University.
Participation in social events in the Ma'an Governorate.

• Three Major Achievements with Documented Impact:

1. Promotion to Associate Professor, Al-Hussein Bin Talal University (2023)
2. Appointed Head of Physics Department, Al-Hussein Bin Talal University (2014–2016)
3. Ph.D. in Environmental Physics awarded cum laude with DAAD scholarship, University of Bremen (2008), followed by postdoctoral research at the Institute of Environmental Physics, Bremen (2008–2011)

7. Declaration:

I certify that the information provided above is accurate and that supporting evidence can be supplied upon request.

Faculty Member's Name: Dr. Ahmed Qwasmeh **Signature:** **Date:** 22 October 2026