# Al-Hussein Bin Talal University

## Faculty Member – Brief Curriculum Vitae

### 1. Personal Information:

**Full Name:** Dr. Amani Kraishan **Faculty / Department:** College of Science / Department of Physics

**Academic Rank:** Associate Professor **Area of Specialization**: Nuclear, Radiation, and Computational Physics

**Date of Appointment**: September 2018 **Date of Current Rank**: April 2025 **Email:** amani.f.kraishan@ahu.edu.jo

### 2. Academic Qualifications:

| Qualification | Specialization | University / Country | Graduation Year |
|---|---|---|---|
| **Ph.D.** | Physics | Temple University / USA | 2018 |
| **M.Sc.** | Physics | University of Delaware / USA | 2012 |
| **B.Sc.** | Physics | Al-Hussein Bin Talal University / Jordan | 2006 |

### 3. Academic and Administrative Experience:

| Rank / Position / Assignment | Institution / Unit | Period |
|---|---|---|
| **Associate Professor of Physics** | Al-Hussein Bin Talal University | Apr 2025–Present |
| **Assistant Professor of Physics** | Al-Hussein Bin Talal University | Sep 2018–Apr 2025 |
| **Graduate Research Assistant** | Temple University, USA | Jun 2013–Jun 2018 |

### 4. Teaching and Academic Supervision:

Key Courses Taught: General Physics I & II; Physics Laboratories I & II; Mathematical Physics I & II; Classical Physics I & II; Quantum Mechanics I & II; Thermodynamics; Optics; Astrophysics; Elementary Particle Physics.

Master's Theses Supervised (Number): 0 Doctoral Dissertations Supervised (Number): 0

### 5. Scholarly Publications and Research Projects:

• Peer-Reviewed Journal Articles: Total: More than 90 scholarly publications | Last Five Years: 20 | Books / Chapters / Patents: 0

• Citations: 14,264 h-index: 59 Database: Google Scholar Date Updated: 21 October 2026

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

1. Physics-informed, uncertainty-aware surrogate screening of gamma-ray attenuation in lead-free multicomponent oxide glasses. Applied Radiation and Isotopes (2026). DOI: 10.1016/j.apradiso.2026.112788.
2. Response-dependent layer ordering in fixed-inventory compact neutron–photon shields: Exhaustive OpenMC benchmarks at 2.45 and 14.1 MeV. Nuclear Engineering and Technology, (2026). DOI: 10.1016/j.net.2026.104719
3. A cross-national assessment of artificial intelligence chatbot user perceptions in collegiate physics education. Computers and Education: Artificial Intelligence (2025). DOI: 10.1016/j.caeai.2025.100365.

• Key Research Project / Grant (Funder, Role, Year): STAR Collaboration research on weak-boson spin asymmetries; Graduate Research Assistant, Temple University (2015–2018).

### 6. University and Community Service and Achievements:

• Key Committees / Accreditation and Quality Initiatives / Community Service: Departmental Timetable and Study Plans Committee; Departmental Quality Assurance Committee; Scientific Research Committee; College of Science Council; master's Thesis Defense Committee; public solar-eclipse observation (2022); school science outreach.

• Three Major Achievements with Documented Impact:

1. Research impact: More than 90 peer-reviewed scholarly publications; 14,264 Google Scholar citations and h-index 59 (21 October 2026).

2. Teaching impact: Delivered Introduction to Astrophysics to more than 300 students and General Physics I to approximately 100 science and engineering students.

3. International teaching and research: Completed Stockton University Faculty COIL Collaborative program and implemented a collaborative online international learning unit (2026).

## 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. Amani Kraishan  Signature:   Date: 21/10/2026