Al-Hussein Bin Talal University

Faculty Member – Brief Curriculum Vitae

1. Personal Information:

Full Name: Mahmoud Khaled Abu-Samak
Faculty / Department: College of Science / Department of Physics
Academic Rank: Associate Professor Area of Specialization: Solid State Physics
Date of Appointment: September 2004 (AHU) Date of Current Rank: 2022 Email: mabusamak@ahu.edu.jo

2. Academic Qualifications:

Qualification	Specialization	University / Country	Graduation Year
Ph.D.	Solid State Physics	University of Rajasthan, Jaipur, India	1996
M.Sc.	Physics	University of Kashmir, J&K, India	1992
B.Sc.	Physics	University of Gujarat, Gujarat, India	2005

3. Academic and Administrative Experience:

Rank / Position / Assignment	Institution / Unit	Period
Professor	Department of Physics, College of Science, Al-Hussein Bin Talal University, Jordan	Sep 2021–Present
Associate Professor	Department of Physics, Faculty of Science, Al Baha University, Saudi Arabia	Sep 2010–2015
Assistant Professor	Science Departments, Al-Zaytoonah Jordanian Private University, Amman, Jordan	Sep 1997–2004

4. Teaching and Academic Supervision:

Key Courses Taught: Solid State Physics I & II; Electronic and Digital Electronics; Electrical and Electronic Circuit Analysis; Mathematical Physics I & II; Electromagnetism I & II; Classical Mechanics I & II; Electrodynamics; Modern Physics; Quantum Physics I & II; General Physics 101 & 102; Thermodynamics; Heat and Waves; Low-Temperature Physics; Superconductivity. Postgraduate: Solid State Physics.
Master's Theses Supervised (Number): Not specified in the source CV Doctoral Dissertations Supervised (Number): Not specified in the source CV

5. Scholarly Publications and Research Projects:

• Peer-Reviewed Journal Articles: Total 23 (as listed in the source CV) | Last Five Years: Not verifiable from the June 2021 CV | Books / Chapters / Patents: 2 books; no patents listed
• Citations: Not provided | h-index: Not provided | Database: Google Scholar profile listed in source CV | Date Updated: Not provided
• Three Selected Publications (Title, Journal, Year, DOI):

1. RIXS, XES and XAS studies for electronic structure of rare earth and alkaline earth modified manganite, Physica B (2021). DOI: 10.1016/j.physb.2021.413562
2. Electronic structure and energy gaps evaluation of perovskite manganite single crystals using XES and XAS spectroscopy, Journal of Electron Spectroscopy and Related Phenomena 250 (2021), 147084. DOI: 10.1016/j.elspec.2021.147084

3. Experimental and DFT investigation of electronic structure and ferromagnetic stable state in pristine and Mn:SnO_2 nanoparticles, Vacuum 179 (2020), 109536. DOI: 10.1016/j.vacuum.2020.109536

• Key Research Project / Grant: No specific research project or grant is identified in the source CV. Fellowships listed separately under awards include UGC-India JRF/SRF, ECU Research Associate Fellowship, ICTP-Italy TRIL, and IAEA/SESAME fellowship.

6. University and Community Service and Achievements:

• Key Committees / Accreditation and Quality Initiatives / Community Service: Chairman of Basic Sciences, College of Science, Al-Zaytoonah University, Amman, Jordan (September 1997–2004). Other committee/service details are not specified in the source CV.

• Three Major Achievements with Documented Impact:

1. Awarded UGC-India Junior Research Fellowship (1993) and Senior Research Fellowship (1994–1996).
2. Awarded Research Associate Fellowship from the European Countries Union (1996–1997).
3. Selected for the ICTP-Italy TRIL programme (1999–2000) and IAEA/SESAME fellowship (2007), as listed in the source CV.

7. Declaration:

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

Faculty Member's Name: Mahmoud Khaled Abu-Samak Signature: _____ Date: _____

Preparation note: Completed using the CV dated June 2021 supplied for this task. Items not stated in that CV (including citation metrics, supervision counts, committee details, and later publications) are marked as not provided / not verifiable and should be updated before official submission.