

Issra' Hammoudeh
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Education

09/2017 – 01/2020 Master of physics
School of sciences
The University of Jordan, Amman Jordan
Master Thesis: “Influence of potassium chloride on the performance of poly N-(Hydroxymethyl) Acrylamide gel dosimeter for low dose applications”

09/2005-02/2009 Bachelor of physics
School of sciences
The University of Jordan, Amman Jordan

Work Experience

Lecturer (Assigned Teaching Duties)

German Jordanian University | Sep 2025 – Present

- Teach undergraduate courses: General Physics I, General Physics II, Physics Laboratory, Precalculus (Pre-Math).
- Deliver lectures, tutorials, and laboratory sessions using interactive and student-centered approaches.
- Develop syllabi, lecture materials, assignments, quizzes, and examinations.
- Assess student performance through exams, homework, and laboratory reports.
- Provide academic advising and continuous student support.
- Coordinate with faculty to ensure alignment with departmental learning outcomes.

Planning & Procurement Officer

German Jordanian University | 2022 – 2025

- Managed full procurement cycle from request initiation to delivery and inventory control.
- Coordinated with academic departments, deans, and administrative committees.
- Ensured compliance with institutional procurement policies and procedures.
- Supported planning and operational decision-making within the university

Research and Teaching Assistant

German Jordanian University | 2012 – 2022

- Conducted laboratory sessions for undergraduate Physics and Engineering students.
- Supervised experiments in Mechanics, Electricity & Magnetism, and General Physics laboratories.
- Assisted in developing lab manuals and instructional materials.
- Evaluated student performance through lab reports, quizzes, and exams.
- Supported faculty in exam supervision and academic assessment activities.
- Maintained laboratory safety and equipment readiness.

Workshop and training

- Data analytics and business intelligence
- PMP training course.
- Time management
- Soft Skills for Success and Emotional Intelligence and Communication.
- Innovation Training Workshop.
- Middle Management Training Program.

Publications

- 1- Khalid A. Rabaeh, Ahmed A. Basfar, Issra' M.E. Hammoudeh (submitted feb. 2024). Low relative humidity-dependent polyvinyl butyral film dosimeter containing 3-(4,5-Dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide dye for radiation processing. *Materials Chemistry and Physics*.
- 2- Khalid A. Rabaeh, Ahmed A. Basfar, Issra' M.E. Hammoudeh (2023). Novel polyvinyl alcohol film dosimeter containing 3-(4,5-Dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide dye for high dose application. *Nuclear Engineering and Technology*, Volume 55, Issue 9.
- 3- Rabaeh, K. A., Hammoudeh, I. M., & Eyadeh, M. M. (2022). Novel polymer gel dosimeters based on N-Vinylcaprolactam for medical dosimetry. *Journal of Radioanalytical and Nuclear Chemistry*, 1-7.
- 4- Khalid A. Rabaeh *, Rawan E. Al-Tarawnehb, Molham M. Eyadeh, Issra' M. E. Hammoudehd, Moneeb T. M. Shatnawi. Improved Dose Response of N-(Hydroxymethyl)acrylamide Gel Dosimeter with Calcium Chloride for Radiotherapy. Accepted, Manuscript ID: *gels*-1527996.
- 5- Rabaeh, K. A., Hammoudeh, I. M., Moftah, B., Oglat, A. A., Eyadeh, M. M., Aldweri, F. M. & Devic, S. (2022). A normoxic acrylic acid polymer gel for dosimetry in radiation therapy. *Journal of Radioanalytical and Nuclear Chemistry*, 1-8.
- 6- Rabaeh, K. A., Issra'ME, H., Oglat, A. A., Eyadeh, M. M., Ala'J, A. Q., Aldweri, F. M., & Awad, S. I. (2021). Polymer gel containing N, N'-methylene-bis-acrylamide (BIS) as a single monomer for radiotherapy dosimetry. *Radiation Physics and Chemistry*, 187, 109522.
- 7- Rabaeh, K. A., Issra'ME, H., Eyadeh, M. M., Aldweri, F. M., Awad, S. I., Oglat, A. A., & Shatnawi, M. T. (2021). Improved performance of N-(Hydroxymethyl) acrylamide gel dosimeter using potassium chloride for radiotherapy. *Radiation Measurements*, 142, 106542.
- 8- Abu-Safe, H. H., Hammoudeh, I., Al-Nasser, H., Morgan, T. A., Ware, M. E., Al Faouri, R. A., & Naseem, H. (2018, September). Ellipsometric study of aluminum-nickel nano-films for plasmonic application. In *Nanostructured Thin Films XI* (Vol. 10731, p. 107310J). International Society for Optics and Photonics.

Research Experience

- Worked with dr. Khalid Rabaeh and dr. Moneeb Shatnawi on fabricating the geldosimeter, also irradiate it, and finally use NMR and UV-Vis techniques in analysis. (Master thesis project)
- Worked with dr.Husam Abu safe on “Investigating third order nonlinearities in nonorganic nanomaterials “research project.
- Worked with Dr.Inshad Juma’a on “ polymeric nanocomposites doped with magnetically aligned nanoparticles for monovalent and multivalent ion rejectionand electromagnetic wave polarizer” research project.