DR. SAHARAL-EID

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PROFESSIONAL SUMMARY

Highly passionate education expert, holding a PhD in Mathematics with honors from University of Almeria in Spain, and MSc in Mathematics with excellence,accumulating over 30 years of experience in teaching Mathematics in all educational streams including International Baccalaurette (IB), International General Certificate of Secondary Education (IGCSE), General Secondary Education Certificate Examination (Tawjihi), and SAT. Successful learning and development specialist, bringing proven skills and vast knowledge in designing materials, implementing, and optimizing curricula.

Received the Best Teacher Award at Princess Sumaya University and Technology (PSUT) in 2011, for being able to promote teacher collaboration, diagnose student learning progress, design entrance assessments, drive targeted instruction and create learning plans that drive development. Meets stakeholder needs at the student, teacher, and educational institution level, delivering equal educational opportunities by fairly enforcing policies and keeping all teachers successful with an array of skills such as high time-management skills, regular observation, measuring student mastery, formulating individualized intervention plans and improving student achievement.

SKILLS

- Curriculum Development
- Course Design
- Content Adaptation and Optimization
- Research Management
- Program Planning
- Analytical thinking

- Student and Program Assessment
- ICT skills (Python Fundamentals)
- Education Advisory
- Advanced Time Management
- Learning and Development Skills

EXPERIENCE

June 2023-February 2024
Part-time lecturer at PSUT

August 2018 - June 2021

Senior Mathematics Teacher

Mashrek International School | Amman, Jordan

- Taught **70+** students in International Baccalaureate (IB) - *Standard Level (SL)* and *Higher Level (HL)* Mathematics
- Supervised **45+ internal assessments** for Math Studies and SL IB

students, improving their ideas through valuable feedback and evaluation, in addition to encouraging the use of technology for graphs and data analysis

- Integrated technologies and online learning tools for improved student learning and engagement.

- Customized approaches to effectively help remedial, average, and advanced students develop abilities.

- Aided learners in demonstrating mastery of topics by unpacking standards, sequencing concepts, and correlating objectives and math topics.

- Applied current best practices in teaching mathematical concepts, principles, and skills.

September 2016 - June 2017

Lecturer

University of Almería (UAL) | Almería, Spain

- Taught international students baccalaureate-level courses in non-linear programming and quantitative methods in accordance with department needs

- Initiated and fostered effective relationships and partnerships with faculty members, administrators, and department heads

- Assisted struggling students with extra support and targeted assistance

- Assessed students' progress by grading assignments, papers, and exams

September 2003 - June 2014

Lecturer

Princess Sumaya University for Technology | Amman, Jordan

- Taught *Calculus 1, 2, and 3* for <u>Engineering and Computer Science</u>, in addition to *Discrete Mathematics* and *Calculus* for <u>Business and Economics</u>

- Proposed curriculum changes and program modifications to Mathematics Courses.

- Collaborated with department personnel in curriculum development, review, and revision.

- Developed instructional plans for courses in adherence to college and departmental standards.

- Coordinated Discrete Mathematics Course at the university

- Worked with program assessment team to develop pre-calculus entrance exam based on student outcomes and national standards.

- Developed lectures and assignments promoting critical thinking, personal development, and commitment to common good.

- Served on department and university committees to contribute to overall

advancement of academic institution.

- Assessed students' progress by grading assignments, papers, and exams.

August 1993 - June 2002

Mathematics Teacher

Amman Academy School (AA) | Amman, Jordan

- Taught Mathematics for *A-level /IGCSE /GCE* students from **grade 4 - 10**, achieving outstanding results with **more than 50%** of students receiving A and A* grades *(certified from Cambridge Board of Examination)*

- Collaborated with faculty and educational specialists to discuss program improvements.

- Trained new teachers on educational processes and pedagogies in the classroom

- Administered and evaluated mock assessments for students to enhance performance and grade earnings

- Assisted department heads with selecting curricula and materials to meet students' needs.

- Helped students understand and explore foundational concepts in mathematics by using diverse instructional and tutoring strategies.

- Delivered learner-centered instruction with inclusive classroom environment.

- Worked with students in group and individual environments to provide varied instruction styles for diverse learning modalities.

August 1990 - June 1993

Mathematics Teacher

Saáda School | Amman, Jordan

- Taught *Standard* and *Advanced Mathematics* for *Tawjihi* students (General Secondary Education Certificate Examination) and *middle school* students; **grades 7 - 12 with 100% passing rate for all students.**

- Planned, evaluated, and revised lesson plans and teaching techniques.

- Moderated and fostered clear communication in classroom discourse.

- Prepared course and project resources and materials and integrated current best practices in teaching mathematical concepts, principles, and skills.

- Advised and supported students by maintaining regular office hours.

EDUCATION

June 2017

PhD in Mathematics, with honors

University of Almeria (UAL), Spain

June 1993

Master of Science (MSc) Mathematics, with excellence
University of Jordan (UJ), Amman, Jordan

June 1990

Bachelor of Science (BSc) Mathematics
University of Jordan (UJ), Amman, Jordan

PUBLICATIONS

- PhD Thesis in Graph theory: Quasi-Perfect Domination and Independent in Graphs
- S.A. Aleid, M. Mora and M.L. Puertas. Independent [1,2]-number versus independent domination number. Analele Universitatii "Ovidius" Constanta - Seria Matematica, vol. 25, no. 3, 2017, pp5-24 https://doi.org/10.1515/auom-2017-0031
- S.A. Aleid, J. Caceres and M.L. PUertas. On independent [1,2]-sets in trees. Discussiones Mathematicae Graph Thoery vol. 38, no. 3, 2018, pp. 645-66. https://doi.org/10.7151/dmgt.2029
- S.A. Aleid, J Caceres and M.L. Puertas. Every grid has an independent [1,2]-set. Discrete Applied Mathematics, vol. 263, 2019, pp. 14-21. https://doi.org/10.1016/j.dam.2018.05.020

LANGUAGES

- **Arabic**: Native Speaker
- **English**: Excellent Spoken and Written
- **Spanish**: Excellent Spoken and Intermediate Written

AWARDS

- First Winner of **Best Teacher Award** at Princess Sumaya University for Technology from Abd-Alhameed Shoman Establishment (2011).

CONTRIBUTIONS

- **Speaker** at *TEDx Amman Teachers*. Amman-Jordan (2012)
- On independent [1,2]-sets in trees. Sahar A. Aleid, Jose Caceres and Maria Luz Puertas. IX Encuentro Andaluz de Matemática Discreta Almería, October 2015. Almería-Spain, (Participant)
- Independent [1,2]-domination of grids via min-plus algebra, Sahar A. Aleid, Jose Caceres and Maria Luz Puertas. Discrete Mathematics Days at UPC, July 2016 ,Barcelona-Spain, (Poster)
- Independent [1,2]-domination of grids via min-plus algebra, Sahar A. Aleid, José Cáceres and María Luz Puertas. Bordeaux Graph Workshop, November 2016. Bordeaux-France, (Participant)

- Independent [1,2]-number versus independent domination number in Caterpillars ,Sahar A. Aleid, Mercè Mora and Maria Luz Puertas. 48th Southeastern International Conference on Combinatorics, Graph Theory & Computing, at FAU, March 2017, Miami, Florida, USA, (Participant)
- Bounds of independent [1,2]-number in caterpillars, X Encuentro Andaluz de Matemática Discreta La Linea de la Concepción, Cádiz, Spain, July 2017