

Curriculum Vitae

Dr. Mohammed F. M. Abu Owda

Associate Professor

Curriculum & Science Teaching Methods



Personal Profiles:

Name: Mohammed F. M. Abu Owda

Home Address: Al-Nasser Street, Gaza Strip, Palestine.

Work Address: The Islamic University of Gaza, Faculty of Education, Department of curriculum and Methodology, P.O. Box.108, Gaza, Palestinian National Authority, Palestine.

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Date of birth: 23th January 1982

Nationality: Palestinian

Marital status: Married with Five Children

Languages: Arabic (Native)

English (Good)

Education and Qualifications:

- **Associated prof**, Curriculum and Science Teaching Methods, 2021.
- **Assistant prof**, Curriculum and Science Teaching Methods, 2017.
- **PhD**. Curriculum and Science Teaching Methods, Ain-shams University, 2012.
- **M.A.** Curriculum and Teaching Methods, Islamic University of Gaza, 2006.
- **Diploma**, Education, Islamic University of Gaza, 2005.
- **B.A.** Biology from Education, Islamic University of Gaza, 2003.

Teaching:

- EDUC 3233 Teaching skills.
- EDUC 2309 Curriculum analysis, Evaluation and Development.
- EDUC 6208 Measuring and Evaluation Tools.
- EDUC 3315 Science Teaching Strategy.
- EDUC 3316 Math's Teaching Strategy.
- EDUC 3306 Technology & Science in Society.
- EDUC 6305 Research Methods.
- EDUC 3204 Educational Technology.
- EDUC 790105 Digital Technology in Education.
- EDUC 9310 Curriculum from a Global Perspective

Areas of Expertise

- Sustainable Development.
- E-learning.
- Modern Trends in teaching.
- Teaching and Learning.
- Professional Development.
- Pedagogical development.
- Institutional performance evaluation and program evaluation
- Planning and quality

The scientific experiences and activities:

- Associate professor, Islamic University of Gaza 2021 – present.
- Vice-Dean of Quality & Development, Islamic University 2021 - Present.
- Consultant of Ministry of Women for Planning Affairs 2022 – present.
- Academic Visitor at Faculty of Education in Mus Alparslan University as a part of Erasmus+ Project, 2022.
- Consultant of "IESCO" International Educational Scientific and Cultural Org. 2020 – 2022.
- Arbitration committee member to taawon Distinguished Teacher Award, 2020 – 2021.
- Academic Visitor as a part of "e Training FinPal" project in cooperation with Tampere University, Finland, 2020.
- Supervisor of Technology Center – Faculty of Education – Islamic University of Gaza 2019 - 2021.
- Academic Visitor at Faculty of Education in Humboldt University as a part of Erasmus + Project, 2019.
- Head of Educational Sciences Department - Islamic University of Gaza 2018 – 2019.
- Academic Visitor at Faculty of Education in (IIUM), 2018.
- Trainer, in Teaching, Learning, E – learning, Entrepreneurship, & Sustainable Development (IUG, SMEB, ME, ..) 2017 - present
- Supervisor of master's and doctoral studies, 2017 – present.
- Supervisor of science and mathematics center – Islamic University of Gaza 2017 to 2018.
- Head of the Preparatory Committee for the Conference on Modern Trends in Education Development, 2020.
- Head of Scientific Committee of the International Palestinian youth conference, 2016.
- Director of E-Learning journal – Islamic University. From 2014 to 2015.
- Awarded by the Ministry of Education for the best scientific researcher, Humanity Studies, 2014.
- E-Learning Consultant at the Islamic University, from 2013 to 2015.
- A member of school curriculum committee in biology department in the Islamic university, from 2007 to 2008.
- A member of consultant committee e-Learning center at the Islamic university.

- Representative of science faculty in the committee of the management qualification in the Islamic university in Gaza, from January, 2008 to January, 2010.
- A member of the activation job titles committee, from 2010 - 2011.
- A member of the evaluation committee in biological science master program, from 2010 - 2011.
- A member of making description for the master program in biotechnology, from 2010 - 2011.
- A member of quality committee in biology department, from 2012 - 2013.
- Teacher of biology for people with special needs (talented) from September 2004 - April 2007.
- Teacher (part-time) in the educational faculty in the Ummah University in Gaza from September, 2009, (Science Teaching Methods, General Biology).
- Teacher (part-time) in the faculty of Education in the university college of applied sciences in Gaza, 2009 - 2011.
- Coordinator for master program of biological science in Islamic university in Gaza, from Sep. 2006 - Sep. 2016.
- Supervisor in the practicum- faculty of educational the Islamic university in Gaza from September, 2004 - 2016.
- Participant in evaluating people with special needs curriculums (Down's Syndrome).
- Participant in developing some science units to hearing disability student.
- Participant in curriculum development.
- Participant in applying some of technical program to improve the achievement among visual disabilities students.

Conferences and Publications:

- The Effect of a Training Program Based on the Gamification in Developing Creative Teaching Skills Among English Teachers of Preparatory Stage. IUG Journal of Education and Psychological Studies, 4 (31), 2023.
- A Proposed Vision to Improve the Ranking of Palestinian Universities in (Times Rankings 2022) For Sustainable Development Goals. (SCOPUS). Industry 4.0 to Industry 5.0. Studies in Systems, Decision and Control, vol 470. Springer, Cham. https://doi.org/10.1007/978-3-031-28314-7_55

- The Impact of Teaching Artificial Intelligence Concepts and Tools in Improving Creative Thinking skills among Talented Students. *Technological Sustainability and Business Competitive Advantage* pp 267–279, Internet of Things. Springer, Cham. https://doi.org/10.1007/978-3-031-35525-7_16
- The Effectiveness of Teaching a Unit in Science and Life Curriculum which Designed in the light of the Developed 4Mat Model to Improve the Scientific Thinking Skills among 9th graders. *IUG Journal of Education and Psychological Studies*, 4 (31), 2023.
- The Effect of Employing a Developed Learning Unit in Chemistry in Light of the Principles of Green Chemistry to Develop Sustainable Environmental Awareness among 11th graders. *IUG Journal of Educational and Psychological sciences*, 2023.
- A proposed vision to meet the challenges of e-learning Corona pandemic (Covid-19) as a model. *IUG Journal of Umm Al-Qura University for Education and Psychological Studies*, 4 (31), 2023.
- The Effectiveness of A Project-Based Learning Program Supported by the Creative Problem Solving in the Science Subject to Develop the 21st Century Skills among the 7th Graders in Palestine. *IUG Journal of Education and Psychological Studies*, 3 (30), 2022.
- The Effectiveness of Teaching Science by Using Scientific Humor Approach to Provide the Basic Scientific Concepts to 3rd Graders. *IUG Journal of Education and Psychological Studies*, 4 (30), 2022.
- The Level of Science Books Inclusion Prescribed for Students of the Upper Basic Stage of the International Dimensions (Pisa), *Journal of Al-Quds Open University for Educational and Psychological Research and Studies*, 40, 2022.
- Evaluating the scientific content of science and life curriculum for students of basic grade in the light of profession and life skills. *IUG Journal of Education and Psychological Studies*, 29 (2), 2021.
- Augmented Reality Technology, and It's Effect in Improving the Acceptance to Use it Among Students of 7th Graders in Medical Technology Unit. *Creative Education Journal*, 11 (12), 2020.
- Impact of Using Project Based Learning According to Integrative Approach to Improve Design Thinking skills among 9th Grade Students. *Journal of Al-Quds Open University for Educational and Psychological Research and Studies*, 11 (35), 2020.
- The Palestinian Terrestrial Vertebrate Fauna Preserved at the Biology Exhibitions of the Universities of the Gaza Strip, *Research in Ecology*, 2(4), 2020.
- Reflections of Authentic Assessment Application on the Students of Basic Stage in Gaza, *Journal of Al-Quds Open University for Educational and Psychological Research and Studies*, 11 (35), 2020.
- The Effect of Employing Learning Environment Based on Hologram in Teaching Medical Technology to Develop Visual Thinking Skills for Seven Graders, *IUG Journal of Education and Psychological Studies*, 28 (7), p. 57-75, 2020.

- Students' Self-Efficacy Towards Learning English Through Drama and CLIL. *Research Journal of Education*, 6(8), pp. 113-120, 2020.
- The Effect of Philosophical Inquiry Program in Improving Academic Participation Among Secondary Graders in Malaysia Arabic School. *Research Journal of Education*, 6 (7), pp. 72-76, 2020.
- The Effectiveness of an Educational Environment Based on Learning Entries for Developing Mathematical Communication Skills among Visually Impaired Students in Gaza. *IUG Journal of Education and Psychological Studies*, 28 (6), 2020.
- The Effect of Employing Curriculum Based on Integral Activity to Develop Scientific Thinking Skills in Science and Life Course among 4th Grade Students in Gaza. *IUG Journal of Education and Psychological Studies*, 28 (4), 2020.
- The Effect of STEM Curriculum Based on Islamic Perspective on 9th Grade Talented Female Students' Critical Thinking in Gaza. *International Journal of Elementary Education*, 8 (4), 80-85, 2019.
- The Science Curriculum based on STEM Approach with Islamic Perspective and its effect on Improving Love of Learning among 9th students in Gaza. *Journal of Humanities and Social Science*, 24 (8), 33-38, 2019.
- Effect of a Science Unit "Light & Life" designed according to the Integrative STEM approach on the Improvement of Scientific Practices among 9th grade students. *Journal of Research & Method in Education*, 9 (3), 46-50, 2019.
- Designing a science curriculum model based on STEM with Islamic perspective for 9th talented students. *International Conference on Business, Education, Innovation & Social Sciences (ICBEISS 2019)*, (eISBN: 978-967-16859-3-8), 2019.
- The Effect of Using Solving Problems Strategy to Improve the Divergent Thinking Skills in Science Course among Female Students of Ninth Grade. *International Journal of Research in Education and Psychological*, Mar 2016. Co-Operative research.
- The Effectiveness of Using Virtual Lab in Science Course to Improve Visual Thinking Skills among Female Students of the Ninth Grade. *International Journal of learning Management System (IJLMS)*, 3 (1), January 2015. Co-Operative research.
- The Effect of Using Thinking Maps Strategy to Improve Science Processes in Science Course on Female Students of the Ninth Grade. *Science Journal of Education*, 2 (2), 2014, pp. 44-49. Co-Operative research.
- Evaluation of Management Quality Processes Associated With the Islamic University Teacher According to Point of View. *The Fourth International Arab. Conference on Quality Assurance in Higher Education*, Zarqa University of Jordan, 1-3 April 2014. Co-operative research.
- Virtual Lab – is One of Virtual Environments. Introduced sheet paper for the study day practices, "virtual instructional environments", *IUG*, 10 Mar 2014.
- New Technique to Tackle pushing up in Palestine. Introduced sheet paper for the study day practices, pushing up in Palestine "Problems and solutions", *IUG*, 23 Dec 2013.

- Virtual Lab – New vision for learning. Introduced sheet paper for the study day practices, vision and creative experiences in teaching, Al-Aqsa University, 15 May 2013.
- Suggested model for quality standards of higher education institutions in Palestine.
- The Tired International Arab Conference on Quality Assurance in Higher Education, Al-zaytoonah University of Jordan, 2-4 April 2013. Co-operative research.
- Directing the acceptance Policy of the Universities under the balance between high education output and Job market needs in the educational process in Gaza. The International conference on the high education in the Arab world: future prospects, IUG, 15-18 Jan 2013. Co-operative research.
- Program Using virtual lab in Bio-Technology to Improve the scientific inquiry skills in The Islamic University Students in Gaza. Scientific research magazine in education, Women's Collage, Ain Shams University, No13, 2012. Co-operative research.
- Program using virtual lab in Bio-Technology to Improve the attitude toward the achievement in The Islamic University Students in Gaza. Scientific research magazine in education, Women's Collage, Ain Shams University, (13), 2012. Co-operative research.
- Evaluation some of scientific thesis in the educational technology in the light of the essential curriculum standers. High study conference and its rule in servicing society. from 19 to 20 April 2011. Co-operative research.
- Mobile Learning – introduced vision for using mobile learning in education. Introduced Sheet paper for the study day technology and e-learning, IUG, 20 February 2011.
- Improving the Quality of Practical Training and micro-teaching program in the Technology Education Program at Universities and colleges in Gaza Strip. 2010. Co-operative research.
- Technology literacy level to the students of grade ten under the technology literacy sides technical education, A Conference Technical and Vocational Education in Palestine (Reality, challenges and ambition), University college of applied sciences, 12-13, Oct 2008. Co-operative research.
- The evaluation of the education means and the samples which are found in the center of the means in the Islamic university according to the qualified in standers. The Third educational conference in Palestine, Quality in general Palestinian education, (as an Excellence entrance), IUG, 30-31 Oct 2007. Co-operative research.
- Analyzing the Scientific Content of the Technical Culture Curriculum for Tenth Grade students in Light of the Dimensions Technology Literacy, IUG Journal of Education and Psychological Studies, 15 (2), p. 845-873, 2007.

Sample Supported Research Project:

- The Effectiveness of a Program Based on Artificial Intelligence (AI) to Develop the Skills of Creative Thinking, Scientific and Engineering Practices (SEP) among Talent 9th Graders. Supported research from My Care Humanitarian Care Malaysia, in 2020.

- Using STEM Approach with Islamic Perspective in the light of PBL entrance in science course and its impact on the development of critical thinking and love of learning skills among Talented Students of 9th grade in Gaza strip, Palestine. Supported research from IESCO International Educational Scientific and Cultural Org Malaysia, in 2019.
- Evaluation of Books Content of life skills in the three grades according to modern attitudes. Supporting research from Scientific Research Council, Ministry of Education and Higher Education in Gaza, in 2014.
- Evaluation of main lines of the new technology curriculum in the according to AECT standards. Supporting research from Scientific Research Council, Ministry of Education and Higher Education in Gaza, in 2014.
- The effect of using thinking maps strategy to improve science processes in science course on female students of the ninth grade. Supporting research from Scientific Research Council, Ministry of Education and Higher Education in Gaza, in 2014.
- Using virtual labs in designing the practical experiments in biotechnology. Supporting project from Scientific Research, Islamic University, in 2013.
- Improving the Quality of Technology Education Teacher Preparation Programs in the Universities and Colleges in Gaza Strip. Supporting project from the International Bank and the united Europe, 2010.

Sample of Arbitrated Researches:

- The Impact of a Training Program Based on Next Generation Science Standards (NGSS) on Reflective Thinking, for Science Teachers of the Upper Basic Stage in Palestine.
- The Study Aimed to Identify the Difficulties to the Application of Real-life Evaluation Tools in Southern Shouna Brigade Schools from the Point of View of the First Three Grades' Teachers.
- Building Green Chemistry Curriculum Standards at the Secondary Stage in the Kingdom of Saudi Arabia and Standardizing its levels Matrix
- Evaluation of the Teaching Performance of Female Middle School Science Teachers in the light of STEM Education from their Perspective.

- The Effect of a Teaching Method Based on Integrating Electronic Conceptual and Mental Maps on the Achievement in Biology of Tenth Grade Female Students at El-Adawiya Secondary School.

Sample of M.A & PhD Letters were Supervised & Discussed:

- The effectiveness of using Flipped Learning based on WEB QUEST in developing skills of physics problem solving based on graphs and physical sense for 11th Grade students.
- The Impact of SIOP Model Based on Active Learning in Developing English Speaking Skills through Science Among 6th Graders.
- The Impact of Using Scientific Stations Strategy on Developing Deep Understanding Skills in Life Science among Tenth Grade Female students.
- The Effect of Employing Active Integrated Curriculum in Developing Scientific Thinking Skills in Science and Life Subject among Fourth Grade Students in Gaza.
- The Effectiveness of Employing Smart Learning Applications in Science and Life to Develop Scientific Problem-Solving Skills and Inferential Thinking Skills for Ninth Grade Students.