

Curriculum Vitae

Prof. Dr. Zakaria Gaber Henawy Beshay

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Current Profession - Summary

Prof. Dr. Henawy brings over 20 years of experience in mathematics and numeracy curriculum development in Egypt. He currently serves as Professor and Coordinator of the Math and Science Program within the Curriculum and Instruction Department of Assiut University. He designs curriculum and teaches courses on mathematics methodology, educational technology, remedial teaching, design and production of instructional materials for special education, teaching practice, and principles of teaching. Prof. Dr. Henawy has published articles on approaches to teaching math to students with learning difficulties and on teaching math to gifted students in the Journal of Egyptian Association for Math Education. He has a Bachelor's degree in Science and Education, a Master's degree in Education (Curriculum Development and Math Instruction Focus), and a PhD in Education (Curriculum Development and Math Instruction Focus) from Assiut University.

Work Experience

- **Coordinator** of *SINAN* (Swiss - North African Academic Network) Project: strengthen the exchange amongst teacher training universities in Switzerland, Tunisia and Egypt. (January 2019, until December 2021).
- **Consultant** for **STESSA** Project: Preparing the **STEM** Teachers in the Faculty of Education, funded by USAID (2018-2020).
- **Consultant** for "Save the Children International" to **Design Educational Manual for Math Teachers for Low Achiever Students in Primary Schools.**(from April 2018: Jun 2018).
- **Consultant** for "CID Consulting" to **design Tools for assessment mathematical skills.**(from March 2018: Jun 2018).

- **Consultant** for "Keys to Effective Learning Company" to provide Technical support in Designing Manuals and Teacher Guides for Math (from September 2017 up till now).
- **Consultant** for "Save the Children International" to Develop and Modify Numeracy Boost Manual and Materials (Trainer, Trainee manuals).(from August 2017: September 2017).
- **Expert for RTI International:** (Numeracy and Curriculum **Expert** to Support PLP's early grade mathematics efforts in Grades 1–3 by providing support to the MOE through the curriculum review, revision and materials development process; contributing to teacher professional development and training accreditation.(March 2015- April 2016).
- **Professor**, Curriculum and Instruction Department, Faculty of Education, Assiut University (May 2020 up till now).

- Core Responsibilities & Duties:

- Teaching the following courses for Students of Math department :
 - School Math for international Mathematic Teachers.
 - Curriculum and STEM Teaching and Learning Strategies for Post graduate Students "STEM Teachers Diploma".
 - Math Methodology.
 - Educational Technology.
 - Remedial Teaching.
 - Design and production of the instruction materials to the special education.
 - Teaching Practice.
 - Principles of teaching.
 - Design educational situations and production of educational materials for Students with Special Needs.
 - Field Training.
 - Technology Education.
 - Advanced Teaching Strategies.
 - Teaching Strategies for Special Needs.
 - Research Methodology
- Supervise the students of the higher studies in Action researches.
- Support in developing the policies and strategies of Math department.

Past Employment:

- Numeracy and Curriculum Expert in RTI International (Senior Education Advisor) in support of the US – Egypt Primary Learning Program (PLP), March 2014: Apr, 2015.
- Coordinator of Teaching Science and Mathematics Program in English, Public Service Center, Faculty of Education, Assiut University. 1- 2012—End Date: up till now (under the Assistant Professor position)
- Lecturer, Curriculum and Instruction Department, Faculty of Education, Assiut University, Jan, 2009: Feb, 2014.
- Assistant Professor , Curriculum and Instruction Department, Faculty of Education, Assiut University, (Feb 2014 to May 2020.)
- Professor , Curriculum and Instruction Department, Faculty of Education, Assiut University, (May 2020 up till now).

Academic Qualifications:

- PHD in Education (Curriculum and Instruction of Math), Assiut University Faculty of Education, 2008. PHD Title: The Effectiveness of Using a Suggested Program for Preparatory Stage Slow Learners in Mathematics in Developing their Achievement, Mathematical Thinking, and Achievement Motivation.
- MA in Education (Curriculum and Instruction of Math), Assiut University Faculty of Education, 2004. MA Title: The Effectiveness of Using Learning Cycle Model in Teaching Geometry in Developing Achievement and Creative Thinking for Preparatory-Stage Students.
- Special Diploma in Education from Assiut University Faculty of Education, 2001.
- BA in Science and Education (Math Section), Assiut University Faculty of Education, 1998.
- **General Average Undergraduate Estimate:** Very good with honor.
- **MA Title:** The Effectiveness of Using Learning Cycle Model in Teaching Geometry in Developing Achievement and Creative Thinking for Preparatory-Stage Students, with Excellent estimate.
- **PHD Title:** The Effectiveness of Using a Suggested Program for Preparatory Stage Slow Learners in Mathematics in Developing their Achievement, Mathematical Thinking, and Achievement Motivation.

Consulting Experiences :

- Designing the Standards of Preparing the **STEM** Teachers in the Faculty of

- Education, STESSA project funded by USAID, December 2018.
- Designing and Building Strategies and Activities in Math for Early Grades Low Academic achievement Students in Math for "Save the Children International", April : Jun 2018.
 - Providing Technical support and Reviewing Manuals and Teacher Guides for Math in Early Grades for "Keys to Effective Learning Company" , March 2018.
 - Developing and Modifying Numeracy Boost Manual and Materials (Trainer, Trainee manuals) funded by Save the Children international, September 2017.
 - Developing Training manual for Math for 1st grades teachers in PLP, funded by USAID, July 2015
 - Developing Training manual for Math for 1st grades teachers, YAPD Association, funded by Save the Children international, June 2014
 - Developing training manual and Train teachers on math skills, UNICEF, June 2013,
 - Community's schools developing Consultant, The Arab Council for Childhood and Development (ACCD), May 2012.

Achievements:

- Participate in the workshop of SINAN project "**Reflective Analysis and Construction of the Professional Identity of the Teacher: Towards a Change of Attitudes**", 6-8 November 2019, in Tunisia.
- Participate in the workshop of SINAN project " **Educational Systems and Teacher Education**: 13-15 March(2019), **Zurich** University of Teacher Education, **Swaziland**.
- Training Primary Math Teachers on how to teach Math in English and for Teaching Math to International Schools. Faculty of Education, Assiut University, January 2019.
- Training Math Teachers and Schools' headmasters of the Franciscan Schools on the New Textbook of the Education 2.0, August 2018.
- Preparing Educational Manual for Math Teacher "Strategies and Activities for Early Grades Low Academic achievement Students in Math for "Save the Children International", April : Jun 2018
- Preparing Tainting Manual for Math teachers for 1 st grades in PLP (primary Learning Project- funded by USAID), 2016

- Devolve the 1st draft of Numeracy Boost manual, Math Teachers' Training Project (Save the Children), Assiut, 2014.
- A consultant of Math Games development program, GWLA, Assiut, 2014.
- Preparing math teacher's handbook for developing numeracy culture, Giving Without Limit Association (GWLA), Assiut, 2014.
- A consultant in the training reference preparation program of math skills for the first three years of primary education in the youth association for population and development in Assuit, 2014.
- Participate in writing subjects descriptions of primary and prep math teachers program, 2012-2014.
- Train secondary school teachers on active learning strategies and effective teaching, MOE, Assiut department, 2103.
- Participate in TEMPUS project, including seminars, workshops and present a Lecture about the Practicum in Initial Teacher Education, in Malta University, 25th November – 6th December 2013.
- General coordinator, Math teachers' preparation program in the CIQAP activities, FOE – Assiut University, 2011-2013.
- Executive Manager of the sixteenth goal of "continuous evaluation for the educational effectiveness" involved in the CIQAP activities, faculty of education – Assiut University, 2012-13.
- Team Member of developing the teaching practice program, Faculty of Education, Assiut University. 2008- 2014.
- Member of review team, faculty staff documents in curricula and methods included in CIQAP activities, 2013.
- Member of quality assurance unit, FOE-Assiut University, 2010-2013.
- Active learning techniques and comprehensive evaluation trainer, ERP, 2013 .
- Train primary math teachers on how to analyze math books and teaching its topics, MoE, 2013.
- Team Member of Continuous Improvement and Qualifying for Accreditation Program (CIQAP), Faculty of Education, Assiut University, 2010-2013.
- Train college students on the communication skills of students with learning

difficulties, Faculty of Education, Assiut 2012.

- Train colleges' students on thinking skills, Faculty of Education, Assiut, 2012.
- Train teachers' supervisors and schools' headmasters on the guidance and technical supervision" FOE- Assiut University,2012.
- Member of the Egyptian Association for math educational from 1998 up till now.
- Participate in math textbooks Analyzing for primary stage, MOE ,2010 .
- Participate in Evaluating math textbooks for primary stage within national standards for teaching math, MOE,2010-2011.
- Preparing reports about results of questionnaire implementation around students' opinions in subject materials and teaching staff for the university year 2010/2011.
- A participating member in the yearly conferences of the Egyptian Association for Curriculum and Instruction,2000 up till now.

Skills:

- English Spoken and written: Very Good
- Computer skills: extensive
- Management and Teamwork skills.
- Ability to deal tactfully and professionally with all agencies and personnel encountered, and make independent objective decisions when circumstances warrant.
- Building strong relationship with governmental and nongovernmental bodies
- Strong relationship with ministry of higher education and ministry of education.

Publications:

- Effectiveness of the program- based on- the theory of multiple intelligences in the development of logical-mathematical intelligence, visual spatial intelligence and achievement among students with learning difficulties in mathematics preparatory stage. *Journal of Egyptian Association for Math Education, October 2009.*
- Evaluate the content of the preparation of mathematics teachers in the light of globalization as one of the challenges associated with information technology - *Journal of the Faculty of Education - Assiut University - July - 2010.*
- The Effectiveness of using spatial – visual approach in developing the spatial sense

and geometrical concepts for primary school pupils - *Journal of the Faculty of Education* - Assiut University - Volume 27 - first issue of April - 2011.

- The effectiveness of using enrichment activities in developing mathematical power dimensions for gifted students in math at primary stage - *Journal of Egyptian Association for Math Education*, October 2011.
- The Effect of integrated Technology in teaching Mathematics for developing achievement and Mathematical thinking among preparatory stage students, MA, 2011. (**Supervisor**)
- The effect of using thinking maps in teaching geometry on developing divergent thinking and decision making skills among preparatory stage students. *Journal of the Faculty of Education in New valley - Assiut University* - May - 2013.
- The Effect of Using an Interactive Multimedia Electronic Book on Developing Achievement, Performance of Geometry Skills, and The Attitude Towards Its Use at The Primary School. The Fourth International Conference on e-learning, Zain e - Learning center at the University of Bahrain, 5-9 May , 2013.
- The effectiveness of using Scaffolding Instruction in developing geometrical problem solving skills and decreasing cognitive load among second year preparatory students. *Journal of Egyptian Association for Math Education*, June, 2016.
- The effective of using Number Talks strategy in teaching suggested unit of mental computation on developing computational fluency skills among second year primary pupils, *Journal of Egyptian Association for Math Education*, Oct., 2016.
- Using Allosteric learning model in teaching geometry for developing critical thinking skills and Academic self- efficacy among preparatory stage students. *Journal of the Faculty of Education, Assiut University*, 2017.
- The Effect of CORT Program on Some Mathematical concepts Achievement and development Some Reflective Thinking Skills of Second Prep School Pupils, MA. 2017. (**supervisor**)
- The Effect of Using Instructional Scaffoldings Supported Multimedia on Mathematical thinking and Math Anxiety of Prep School Pupils, MA. 2017. (**supervisor**)
- The competencies demanded for STEM Teachers. (*Under preparing*)
- Effective Instructional Model Based on the Brain- Based Learning Theory in the Teaching of Mathematics for Development of some 21st Century Skills for the Preparatory Stage Students, MA., 2017. (**supervisor**).

- the effective of (SWOM) Strategy in teaching mathematics for developing strands of Mathematical Proficiency among fifth year primary pupils. *Journal of the Faculty of Education, Sohag University, 2018*
- the effective of suggested strategy based on differentiated instruction & learning styles in teaching Geometry for developing reasoning thinking skills and mathematical productive disposition among 1th year preparatory students in Assiut, *Journal of Egyptian Association for Math Education, July, 2019.*
- Using Generative Learning Strategy in teaching Math for developing Mathematical Imagination and Life Skills among 2th year preparatory students in Assiut, *Journal of Egyptian Association for Math Education, October, 2019.*

References:

- Michelle Ward- Brent , Senior Education Analyst , RTI International, Tel: +001 301 468 8282 , Cell +001 301 787 3240 , Email: mwardbrent@rti.org
- Prof. Wadee Maxmous, Professor of Curriculum & Teaching Mathematics, Faculty of Education, Assiut University, Egypt, Tel: 002 01223971421, Email: Wade_maxmous@yahoo.com.
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