

# CURRICULUM VITAE

## Personal Data

Name: Hind Abdulmajeed Murtada AL-Hammouri

Sex : Female

Nationality: Jordanian

Academic rank: Professor

Field of specialization: Measurement and Evaluation

## Address (work):

Hashemite University  
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## Academic Qualifications

Ph.D. Measurement and Evaluation. Jordan University-Jordan,

Master of Math Education. Jordan University- Jordan,

B.Sc. Mathematics. Jordan University-Jordan,

## Dissertation title:

Constructing a Multi Level Math's Test for the first Four Grades of the Primary Stage in Jordan

## Masters thesis title:

Some of the prevailing teaching strategies while teaching mathematical problem solving, and its relationship with problem solving abilities

## Experiences

- ✚ Math teacher. UNRWA
- ✚ Math supervisor. UNRWA
- ✚ Measurement and Evaluation Supervisor. UNRWA
- ✚ Member of
  - Deans council
  - University council
  - Educational Sciences Faculty council at the Hashemite University
  - Quality Assurance Center Board at the Hashemite University.
  - Graduate studies council at the Hashemite University.
  - Social work center board.
  - Teachers' ranks committees at MOE.
  - The following committees at the Faculty of Educational Sciences level: Scientific research. Academic quality assurance, Academic counseling, Study plan, Graduate studies, and conferences and seminars.
  - Preparation committee for the second and third conferences for Educational Sciences and Childhood Faculties
- ✚ Assistant Dean of Educational Sciences Faculty.
- ✚ Head of the Department of Educational Psychology in addition to the following committees at the department level: scientific research, study plans, graduate studies, conferences and seminars
- ✚ Vice Dean of Educational Sciences Faculty
- ✚ Dean of Educational Sciences Faculty
- ✚ Sharing in constructing abilities tests for secondary stage students at the MOE level
- ✚ Sharing in constructing tests for talented students at the MOE level.
- ✚ Assessing the effectiveness of the ability test that was conducted by the Higher Council of Science and Technology
- ✚ Sharing in constructing achievement tests for the three basic skills (reading, writing and Arithmetic) at the MOE level.
- ✚ Sharing in constructing Maths tests to compare the performance of Jordanian students with their counterparts of other countries
- ✚ Sharing in constructing competence tests for Educational Sciences students
- ✚ Assessing the "Adults Teaching" program in Jordan.
- ✚ Member of the evaluation committee of Prince Al-Hasan bin Talal distinction award
- ✚ Reviewing researches for refereed National, Regional, and International Journals in education, educational psychology, and assessment, measurement and evaluation .
- ✚ Sharing in discussion committees for Thesis and Disertations in education, educational psychology, and measurement and evaluation.
- ✚ Sharing in preparing Math curriculum for 1<sup>st</sup> to 6<sup>th</sup> grades (Math Thinking)
- ✚ Sharing in preparing tests for the administrative staff at the Hashemite University.

- ✚ Evaluating the instructional performance of the academic staff at HU
- ✚ Sharing in induction program for research assistants
- ✚ Revising all the courses outlines at HU (in Arabic)
- ✚ Traing academic staff on critical thinking and problem solving
- ✚ Sharing in evaluating the status of learning at some of higher education institutions at Palisine
- ✚ Participating in Higher Education Link for study, communication, and research skills between HU and University College Chester UK.
- ✚ Share in translating and putting Arabic sound on a video film named: "Accelerate your learning" by Accelerated Learning company.
- ✚ Sharing in committees responsible to construct tests for math to monitor and evaluate educational progress.
- ✚ Sharing in preparing the national conferences on educational reform
- ✚ Sharing in preparing accreditation standards for Jordanian universities.
- ✚ Sharing in preparing rules and regulations concerning Academic Quality Assurance Center at the HU
- ✚ Sharing in authoring
  - 4<sup>th</sup> Grade Math Student's Book and Teacher's Guide for Ministry of Education-Jordan.
  - 1<sup>st</sup> Secondary Grade (literary stream ) Math Student's Book and associated Teacher's Guide for Ministry of Education-Jordan.
  - Critical Thinking ,Creative Thinking, Study and Research Skills, and Problem Solving courses
- ✚ Teaching at Educational Psychology Department. Hashemite University.
- ✚ Prepaing study plans for the following BSc courses: statistical thinking, critical thinking, study and resrarch skills, assessing instruction, teaching math for class teacher, general mathematics, montoring and assessing students' learning, research methodokogies in education and psychology, introduction to psychological and educational statistics, and introduction to psychological and educational research.
- ✚ Prepaing study plans for the following Diploma courses: research methodologies in education and psychology, assessing instruction, statistics for scientific research, educational and psychological measurement and evaluation.
- ✚ Prepaing study plans for the following Masters courses: teaching thinking, constructing tests and scales, research project,experimental design, edcational and psychological research design
- ✚ Prepaing a masters program for educational measurement and research
- ✚ Sharing in prepaing Social Work Diploma and some of its course descriptions at the HU.
- ✚ Preparing needs assessment plan to assess social work current status in Jordan
- ✚ Sharing in preparing laws and regulations of professional diploma certificate for class teacher's and counseling programs practicum courses.
- ✚ Share in prepaing non-cognitive tests at Civil Services Bureua.

## **Taught courses**

### **PhD programme**

1. Using computers in measurement

### **Masters programme**

1. Experimental Design
2. Constructing educational and psychological measures.
3. Developing tests and scales
4. Teaching thinking
5. Psychological tests
6. Research project
7. Experimental Design and statistical methods.
8. Methods of Individual Assessment
9. Inferential statistics
10. Research methodology

### **Diploma programme (post B Sc. certificate)**

1. Assessing Instruction
2. Research Methodology in Education and Psychology
3. Scientific research statistics
4. Educational and psychological measurement and evaluation

### **B.Sc. programme**

1. Critical Thinking
2. monitoring and assessing students' learning
3. Study and Research Skills
4. Math Teaching
5. Statistical thinking
6. Developmental Psychology
7. Psychological and educational statistics
8. introduction to educational psychology
9. Basic mathematics for Classroom teacher
10. Number theory for Classroom teacher
11. Introduction to educational and psychological research.
12. Introduction to educational and psychological statistics.
13. Educational and psychological research and its statistical methods.

## **Languages**

- Good command of writing and reading Arabic
- Good command of writing and reading English

## Computer Skills

- ✓ Word
- ✓ Excel
- ✓ Power point
- ✓ SPSS
- ✓ AMOS
- ✓ BILOG
- ✓ WINSTEPS
- ✓ RUMM
- ✓ HLM
- ✓ LISREL

## Achievements

### Research (published or in press):

1. Alweher, M & Hammouri, H. (1996). Effectiveness of a Critical Thinking Course on the Improvement of Prospective Teachers Thinking Skills. **ICET World Assembly Proceedings**. 201-209.
2. Hammouri, H. & Alweher, M. (1998). Development of Critical Thinking Ability and its Relationship with Age Level, Sex, and Stream of Study, **Dirasat**, **25**(1), 112-126.
3. Hammouri, H. & Alweher, M. (1998). The ability of First Year Students at the Hashemite University in Critical Thinking, and its Relationship with the Stream of Secondary Study, and Level of Academic Achievement, **Dirasat**, **25**(1), 145-158.
4. Kahlout, A. & Hammouri, H. (1998). Strategies of Constructing Item-Bank for Mathematics. **Journal of Faculty of Education**. **Vol. 15**. Year 13. 47-95.
5. Hammouri, H. & kahlout, A. (1999). Conceptual Development of Fraction among Fourth to Eighth Graders. **Dirasat**, **26**(1), 165—186.
6. Kahlout, A. & Hammouri, H. (1999). Levels of Mastery of the Second Basic Stage Pupils of the Concept of Fraction. **Dirasat**, **26**(2), 454-471.
7. Hammouri, H. (1999). The Impact of Selected and Constructed response Item Type on the Factorial and Predictive Validity of the Test. **Journal of Faculty of Education**, **Vol. 16**. Year 14. 115-165.
8. Hammouri, H. (2001). Problem Solving Cognitive Strategies Used by High Achievers of the Hashemite University. Paper presented at the Mathematics Education into the 21st Century Project International Conference: New Ideas in Mathematics Education, **Palm Cove** 19-24 August 2001 – Australia, 91-95.
9. Hammouri, H. (2002). The extent to which The Hashemite University students practiced study skills while being at school, and the degree of its importance from their point of view, **Dirasat**, **29**(2), 155-179.
10. Hammouri, H. (2003). An investigation of undergraduates' transformational problem solving strategies: Cognitive/metacognitive processes as predictors of holistic/analytic strategies. **Assessment & Evaluation in Higher Education**, **28**(6), 571-586.
11. Hammouri, H. (2004). Attitudinal and motivational variables related to mathematics achievement in Jordan: findings from the Third International

- Mathematics and Science Study (TIMSS). *Educational Research*, **46**(3), 241-257.
12. Hammouri, H. (2005). Effects of Instructional Activities and Classroom Assessment Environment on Mathematics Achievement in Jordan. *Journal of Educational & Psychological Sciences*, **6**(1), 40-73.
  13. Hammouri, H., & Weher, M. (2005). The validity and reliability of Yore and Craig's assessment instrument of students' metacognitive knowledge about science reading, science text, and text reading strategies, *Journal of Educational & Psychological Sciences*, **6** (2), 50-87.
  14. Hammouri, H. (2005). Total quality management in higher education: Concept, principles, and obstacles to its application, Paper submitted at 5<sup>th</sup> conference on "*Quality of Higher Education*" that was held at University of Bahrain, 11-13 April, 2005, 839-855.
  15. 11. Hammouri, H. & Weher, M. (2006). Developing of a metacognitive knowledge scale related to science reading for the sixth to tenth graders'. *Dirasat*, **33** (2), 417-435.
  16. 11. Hammouri, H. & Kahlout, A. (2006). The latent structure of Honey and Mumford learning style questionnaire: A confirmatory factor analysis. *Journal of Educational & Psychological Sciences*, **7**(4), 131-156.
  17. Weher, M. & Hammouri, H. (2007). The Development of Students' Perceptions of Scientific Knowledge at Different Educational Levels. *Al-Manara*, **13**(4), 59-94.
  18. Weher, M. & Hammouri, H. (2008). Achievement in science, present attitudes toward it, and awareness of ability to succeed in it as predictors of Students' future attitudes toward science, *Damascus University Journal*. **24**(2) ,165-194.
  19. Weher, M. & Hammouri, H. (2008). Development of Students' Perceptions of Scientific Methodology at Different Educational Levels. *Al-Manara*. **14**(1), 25-53.
  20. Hammouri, H., & Kahlout, A. (2009). A proposed strategy for constructing criterion-referenced diagnostic tests, *Journal of Educational & Psychological Sciences*, **10** (2), 185-214.
  21. Sabah, S., & Hammouri, H. (2010). Does subject matter matter? Estimating the impact of instructional practices and resources on student achievement in science and mathematics: Findings from TIMSS 2007. *Evaluation & Research in Education*, **23**(4), 287 — 299.
  22. Hammouri, H. & Sabah. S. (2010). Analysis and Assessment of the Jordan National Test for Controlling the Quality of Science Instruction (NTCQSI): a Rasch Measurement Perspective. *Educational Research and Evaluation. An international Journal on theory and Practice*, **16**(6),451-470.
  23. Hammouri, H. (2011). An exploratory study of the applicability of item response theory models to construct a teacher made achievement test, *Journal of Educational & Psychological Sciences*, **12**(2) 47-81.
  24. Takash, H., Ghaith, S. & Hammouri, H. (2013). Irrational Beliefs About Family Violence: A Pilot Study Within Jordanian University Students. *Journal of Family Violence*: **28**(6), 595-601.
  25. Sabah, S., Hammouri, H., & Akour, M.(2013). Validation of a scale of attitudes toward science across countries using rasch model: findings from timss. *Journal of Baltic Science Education*, **12**(5): 692-702.

26. Akour, M., Sabah, S. & Hammouri, H. (2015). Net and Global Differential Item Functioning in PISA Polytomously Scored Science Items: Application of the Differential Step Functioning Framework, *Journal of Psychoeducational Assessment*, 33(2) 166–176. DOI: 10.1177/0734282914541337.
27. Hammouri, H., Akour, M. & Sabah, S. (2020). Evaluation of students' Noncognitive Large Scale Assessments measures: Problem Solving Experiences scale as a case study. *Opción 36 (Especial)*, No.26, 3115-3141.
28. Akour, Mutasem M.; Hammouri, Hind; Sabah, Saed; and Alomari, Hassan (2021) "Is it suitable to use the same categorization in rating scales when applied to students with distinctive levels of achievement?," *Practical Assessment, Research, and Evaluation: Vol. 26 , Article 18*.

Available at: <https://scholarworks.umass.edu/pare/vol26/iss1/18>

### **Authored Books:**

Weher, M. & Hammouri, H. (2012). **Study skills: Theory into practice**. Dar Hunain Press, Amman.

### **Translated Books:**

Balkin, R. & Juhnke, G. (2014). *The Theory and Practice in Counseling*. Pearson Inc, publishing. [Translated by: Siham Abu Eita and Hind Hammouri. Dar Al Fiker, Amman, Jordan].

### **Revised books**

Crocker, L. & Algina, J. (2016). *Introduction to Classical and Modern Test Theory*. Second edition. Cengage learning USA, Inc. [translated by: Zeinat Dana. Revised by: Hind Hammouri. [Dar Al Fiker, Amman, Jordan].

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### **On going research:**

- Constructing a measure for detecting bullying behaviours.

### **Research published in refereed conferences**

- i. Alweher, M. & Hammouri, H. (1996). Effectiveness of a Critical Thinking Course on the Improvement of Prospective Teachers Thinking Skills. *ICET World Assembly Proceedings*. 201-209.
- ii. Hammouri, H. (2001). The cognitive strategies that are used by the high achievers of the Hashemite University (Jordan) while solving geometrical problems. *New Ideas for Mathematics Education*. Australia, 19-24/8/2001
- iii. Hammouri, H. (2005). Total quality management in higher education: Concept, principles, and obstacles to its application, Paper submitted at 5<sup>th</sup> conference on "*Quality of Higher Education*" that was held at University of Bahrain, 11-13 April, 2005, 839-855.

## Research interests

- Validation studies
- Psychometric properties of measures

## Conferences

Attending the:

- ✚ Monitoring learning that was held in Amman 1994
- ✚ 43<sup>rd</sup> ICET World Assembly that was held in Amman between 16-21 December 1996
- ✚ International Conference on "Mathematics for Living" that was held in Amman between 18-23 November 2000
- ✚ International Conference on "New Ideas in Mathematics Education" that was held in Australia between 19-24 August, 2001
- ✚ Quality of Higher Education that was held in Bahrain between 11-13 April, 2005.
- ✚ Special education –reality and expectation- that was held at Jordan University between 26-28 April, 2005.
- ✚ Towards a happy childhood that was held at the Hashemite University between 11-12 May, 2005.
- ✚ The second conference on scientific research that was held at Jordan University on 12 of November, 2005.
- ✚ Education in a changing world that was held at the HU between 14-15 April 2010
- ✚ National conference for developing study plans, teaching and learning methods and scientific research at Jordanian Universities that was held in Amman between 15-17/6/2010.

## Courses:

**Attending the following courses:**

- ✓ Cobol
- ✓ Turbo Basic
- ✓ Attending a 10-day workshop at ETS Princeton
- ✓ Writing reports of small projects
- ✓ Developing tests
- ✓ Windows, Excel, Access
- ✓ Publishing on the Internet
- ✓ E learning
- ✓ Learning Management System, Virtual Class Room, Capturing Tools, Authoring Tools
- ✓ Using e-learning softwares

## Workshops

- ✓ Designing a program for developing academic staff.



- ✓ Entrance exams in higher education institutions.
- ✓ Preparing for educational national conference
- ✓ Qualitative research
- ✓ Social work
- ✓ Writing scientific projects
- ✓ FP7 week
- ✓ Student Learning Outcomes (SLOs): Design and measure

### Awards

Winning the 3<sup>rd</sup> award of Al Hassan Bin Talal for scientific distinction, 1997

### Associations

- ❖ Member of National Association of Educational Research