KINGDOM OF SAUDI ARABIA Ministry of Higher Education KING ABDULAZIZ UNIVERSITY

Model

CV (scientific and practical)

For faculty members

King Abdul Aziz University and

its various branches

#### 1- General Data:

NAME

First	Father	Grand F	Last
Mona	Mona AbdulahAlhusain		Banaja

National ID: 1013053804

Sex: Female.

Birth Date: 20-1-1958

Place of Birth : Yanbu Albahr

Job No.: 00009158

Foreign Languages:

Speak	Write	Read	Language
			English

- Current Job: Faculty of Science for Girls
- College : Science
- Department : Mathematics
- Job Title : Assistant Professor
- Duration : 1411

#### 2- Bachelor Degree

COUNTRY: Saudi Arabia

UNIVERSITY: General Directorate of Girls Colleges

FACULTY: College of Education for girls in Jeddah

FIELD OF STUDY: Mathematics

PERIOD OF STUDY...4years

SPECIALIZATION: Mathematics

YEAR OBTAINED: 1979

G.P.A... Very Good with Honors

#### 3- Master Degree

COUNTRY : Saudi Arabia UNIVERSITY: General Directorate of Girls Colleges FACULTY: College of Education for girls in Jeddah YEAR OBTAINED: 1983 PERIOD OF STUDY: 4 years. G.P.A: 1.excellent FIELD OF STUDY: Mathematics MAJOR SPECIALIZATION : Applied Mathematics MINOR SPECIALIZATION: Applied Mathematics TITLE OF THESIS: " Computer Simulation of Hydro Flow Using the Lumped Parameter Approach "

## 4- DOCTORATED DEGREE

COUNTRY: Saudi Arabia UNIVERSITY General Directorate of Girls Colleges FACULTY: College of Education for girls in Jeddah YEAR OBTAINED: 1990 PERIOD OF STUDY: 5 years. FIELD OF STUDY: Mathematics MAJOR SPECIALIZATION : Applied Mathematics MINOR SPECIALIZATION: Applied Mathematics TITLE OF THESIS: " Regularized Integration of Artificial Satellites Motion In the full Earth's gravitational field"

## 5- Courses:

Calculus Course.

Ordinary Different Equations.

mechanics

Analytical geometry

Analytical mechanics

Euclidean and non Euclidean geometry

Project in Mathematics

Linear Algebra

#### 6 - Research interest

- ✤ Celestial Mechanics.
- ✤ Programing.
- ✤ Partial differential equations.

# 7- Training courses

Duration	Sponsor	Course	
18/8/2006	Resources Center	Building Courses	
	College of Education for girls in Jeddah		
15-17/10/1427	College of Education for girls in Jeddah	Assessment methods for testing	
19-20/12/1427	College of Education for girls in Jeddah	How to build a curriculum using the	
		curriculum model	
5-6/1/1429	College of Education for girls in Jeddah	Compass thinking	
9/3/1429	College of Education for girls in Jeddah	Ethics of the profession	
23/3/1429			
4 /10 - 16/11	Faculty of Sciences for Girls	Skills to use the international network	
2009		of information	
۲۰۱۲_۱٤۳۳	Quality and Development Unit	The art of variation	
	Faculty of Science for Girls		
16,18-6-1433	Quality and Development Unit	Matrices the growth of educational	
	Faculty of Science for Girls	experiences in university education	
		programs	

# 8- Research Publications

Year	Pages	Volume	Journal	Title of Research
1997	387-396	4(2)	Korean Journal of Computational and Applied Mathematics	<ol> <li>Symbolic Computing Algorithm for the Method of Successive Approximations for Near-Parabolic Orbits</li> </ol>
2001	267-282	XV	, Scientific Journal of Faculty of Science Minufiya University	2. Continued Fraction Evaluation of the Stumpff Functions of Space Dynamics
2002	147-152	13(1)	Al-Azhar Bulletin of Science	<ol> <li>Determination of the Impact Time for Space Trajectory With Special Reference to Skylab</li> </ol>
2004	699-707	155	Applied Mathematics and Computation	<ol> <li>Error Analysis for Stationary one Point Iteration Formulae of Arbitrary Order of Convergence for Solving Universal Kepler's Equation</li> </ol>
2004	101-115	16	Journal of King AbdulAziz University	<ol> <li>Symbolic Solutions of the Position-time Relations for the Conic Motion of Space Dynamics</li> </ol>
2004	95-108	XVII	Scientific Journal of Faculty of Science Minufiya University	<ol> <li>Algorithmic Approach for the Fourier Analysis With Application to the Annual Smoothed Sunspot's Number From the Year 1700.5 to 2000.5</li> </ol>
2004	81-94	14(1)	Romanian Astronomical Journal	<ol> <li>The generalized universal Kepler's equation and the homotopy continuation method</li> </ol>
2005	177-193	17	Journal of King AbdulAziz University	<ol> <li>Unified Symbolic Algorithm for Some Expansions of the Two-Body Problem Using Lagrange's Fundamental Invariants</li> </ol>
2007	9-16	28	Journal of Astrophysics and Astronomy	9. Homotopy Continuation Method of Arbitrary Order of Convergence for Solving the Hyperbolic Form of Kepler Equation
2013	8 pages	2013	Mathematical Problems in Engineering	<ul> <li>10. The Method of Lines solution of the Regularized Long-Wave (RLW)</li> <li>Equation using Runge-Kutta time discretization method</li> </ul>
2014	366-381	12(2)	Wulfenia	11. Optical Solitons in Dual-Core Core Couplers

# 9- Job Experience:

Duration		Place	Sponsor	Position
From	То			
1979	1983	Jeddah	Girls College of	Joining Dept. of Mathematics
		Saudi Arabia	Education	
1983	1989	Jeddah	Girls College of	Lecturer
		Saudi Arabia	Education	
		T- 11-1-	Faculty of Science	
1990	Currently	Saudi Arabia	for Girls KAU	Assistance Professor

### <u>10-</u> Workshops and Conferences:

Dates	Address	Organizers	Title
2005	Girls College of Education	Girls College of Education	Academic Forum Production I
2006	Girls College of Education	Girls College of Education	Academic Forum Production II
2007	Girls College of Education	Girls College of Education	Academic Forum Production III
2008	KAU	KAU	Academic Forum Production IV
2012	KAU	KAU	Academic Forum Production V
2012	KAU	KAU	Search databases on site SDL

## 11- Contacts

Address: KAU – Faculty of science for Girls – Department of Mathematics.

<u>E-mail:</u> mabanajh@kau.edu.sa

Mail: P. O. Box 50725 Jeddah 21533, Saudi Arabia