

## Dr. Fatema Alzahraa Mohammed Nabieh Hassan.



Assistant Professor  
Physics Department  
College of Science, Zulfi  
Majmaah University

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### Research Interests:

Theoretical physics.

Solid state and magnetism

magnetic and elastic properties of matters.

### Language Skills

Arabic, English

### Qualification (Career and University Education)

1998-2002	B. Sc. Degree in Physics	University of Mansoura
2003-2007	M.Sc. Degree in theoretical Physics	University of Mansoura
2008-2012	PhD Degree in theoretical Physics	University of Mansoura

### Career

2002- 2007:	<b>Demonstrate</b>	Faculty of Science in Damietta/Mansoura University.
2007-2011:	<b>Lecturer</b>	Faculty of Science in Damietta/Mansoura University.
2011 –Now:	<b>Assistant Professor.</b>	Faculty of Science in Damietta/Mansoura University.
2013-2016:	<b>Assistant Professor.</b>	College of Education/Majmaah University.
2017-2019:	<b>Assistant Professor.</b>	College of Science/Majmaah University.

### Conferences

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### Publications

Publication Title	Name of Journal	Date of Publication	Link
A First- Principles Calculations in Magnetism.	M.Sc. thesis	2007	<a href="#">here</a>
A First- Principles Calculation of the Magnetic Properties and Electronic Structure of 3d Transition Metal- Based Compounds.	Ph.D. thesis	2011	<a href="#">here</a>

A first-principle study of the magnetic, electronic and elastic properties of the hypothetical $YFe_5$ compound	Physics of Condensed Matter,	pp. 2486-2489, 1, 2012.	<a href="#">here</a>
"A DFT-Based Study of the Magnetic, Electronic and Elastic Properties of $YFe_2$ ", Volume 2, Number 1, pp. 135--148(2010).	International Journal of Physics and Applications (IJPA), ISSN 0974-3103	2010.	<a href="#">here</a>
Electronic band structure and magnetic properties of $YCo_5$	Adaptive Data Analysis World Scientific Publishing Company	2008.	<a href="#">here</a>
Calculation of the Magnetic and Electronic Properties of YFe Compounds.	Lambert Academic Publishing (978-3-8484-1370-6)	2012	<a href="#">here</a>

#### Teaching Experience in Majmaah University.

#### Damietta University

Course Code & Number	Course Name	
PYP Physics	General physics for PYP.	<b>Statistical Physics-Biophysics Astronomy and Meteorology- General physics. (Physics lab in electricity-optics- properties of matter-nuclear- electronics.)</b>
Phys101	General physics.	
PHYS121	mathematical physics 1	
PHYS122	classical mechanics 1	
PHYS 212	mathematical physics 2	
PHYS215	classical mechanics 2	
PHYS221	mathematical physics 3	
PHYS314	electrodynamics	
PHYS411	computational physics 1	
PHYS421	computational physics 2	

<b>Training Experience</b>			
<b>Name</b>	<b>Course Type</b>	<b>Institution</b>	<b>Date</b>
Personal Styles	Training Courses	Majmaah University.	<b>28/4/1436 H</b>
Rapid research reading	Training Courses	Majmaah University.	<b>19/4/1436 H</b>
Stimulation and motivation industry to the student.	Training Courses	Majmaah University.	<b>1/2/1436 H</b>
Measurement of learning outcomes	Training Courses	Majmaah University.	<b>10/2/1436 H</b>
Programs and curriculum maps specification.	Training Courses	Damietta University.	<b>7/2013</b>
Institutional Self-Assessment	Training Courses	Damietta University.	<b>7/2013</b>
External Revision.	Training Courses	Damietta University.	<b>7/2013</b>
Strategic Planning	Training Courses	Damietta University.	<b>7/2013</b>
E- Learning(D2L/blackboard)	Training	Majmaah University	<b>From 2014 to now</b>

### **Practical Skills**

**Windows- Linux (RedHat)**

**Mathematica, Matlab, FPLO, office-Writing by Latex.**