



Benha University
Faculty of Science
Department of Mathematics

(Curriculum Vitae)

(1) General:

- ***Name** : Mohamed El-sayed Abdel-Aal Abdel-Ghany
- ***Date of Birth** : 5 May 1977
- ***Marital Status**: Married (Three children)
- ***Address** : El-warak El-hader- Embaba- Giza - Egypt
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Dr. / Mohamed El-sayed Abdel-Aal Abdel-Ghany
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(2) Academic Degrees:

- * **B. Sc. Degree** in Mathematics (*[excellent with honors](#)*) 1999, Faculty of Science, Benha University.
- * **M. Sc. Degree** in Pure Mathematics (*[Abstract Algebra](#)*) 2005, Faculty of Science, Benha University.
 - **My M. Sc. Thesis was titled:**
" [Semimodules over \$\alpha\$ -regular semirings](#) "
- * **Ph. D. Degree** in Pure Mathematics (*[Differential equation](#)*) 2011, Faculty of Mathematics, Tajik National University, Tajikistan.
 - **My Ph. D. thesis was titled:**
" [Integral representations of the manifold of solutions for some over-determined systems of partial differential equations, containing second order hyperbolic equation with singular and super-singular lines.](#)"

(3) Activities:

- * **A Demonstrator** in Faculty of Science, Benha University (1999-2005).
- * **An Assistant Lecturer** in Faculty of Science, Benha University (2005-2011).
- * **A Lecturer** in Faculty of Science, Benha University (2012 until now).

(4) **Languages:**

Good in English, Normal in Russian.

(5) **Teaching Courses:**

- **Undergraduate:** Calculus, Algebra, Real Analysis, Set Theory, Graph Theory, Linear Algebra, Ordinary and Partial Differential equations, Special functions Integral Equations, Abstract Algebra.
- **Postgraduate:** Ring Theory, Semiring Theory, Difference and Differential Equations, Theory of Groups, Field Theory, Semifield Theory, Graph Theory.

(6) **Research Areas:**

- 1- Ordinary – partial differential equations;
- 2- Graph Theory
- 3- Abstract algebra.

(7) **Published Books:**

- 1- Overdetermined linear system of second order with the singular lines and super-singular lines, LAP Lambert Academic, **Germany**, Publishing (24.08.2011), <http://www.setbook.biz/books/2015965.html> (Russian version).

(8) **Publications :**

1. *Mohamed El-sayed Abdel-Aal*. About one linear overdetermined system of three equations contains second order hyperbolic equation with two degenerating lines // Bulletin of National University, series of mathematician, 1,(49) Dushanbe, 2009, pp. 37-47 (N. Rajabov) (Russian version).
2. *Mohamed El-sayed Abdel-Aal*. The linear overdetermined system with constant coefficients, contains second order hyperbolic equation // Bulletin of National University, series of mathematician, 3(59) Dushanbe, 2010, pp. 27-32 (N. Rajabov) (Russian version).
3. *Mohamed El-sayed Abdel-Aal*. Investigations of the linear overdetermined system of three equations contains second order hyperbolic equation with two degenerating lines // Bulletin of National University, series of mathematician, 3(59) Dushanbe, 2010, pp. 90-102.
4. *Mohamed El-sayed Abdel-Aal*. To the theory of the linear overdetermined system of three equations contains second order hyperbolic equation with two degenerating

lines // J. News of Academy sciences republic of Tajikistan, 1(138), 2010, pp. 7-18.
(N. Rajabov).

5. *Mohamed El-sayed Abdel-Aal*. Investigations of the linear overdetermined system of three equations contains second order hyperbolic equation with super-singularity manifold by different parameters// J. News of Academy sciences republic of Tajikistan, 3(140), 2010, pp. 13-24. (N. Rajabov).
6. *M. E. Abdel-Aal*. Overdetermined system with two super-singular lines, contain second order hyperbolic equation // Mathematical Notes, Miskolc, Hungary, № 1(12), (2011). (Rajabov N., Adib A.)
http://mat76.mat.uni-miskolc.hu/~mnotes/index.php?page=article&name=mmn_253
7. *M.E. Abdel-Aal, M.A. Seoud*. On odd graceful graphs, Ars Combin., (2013) 108, pp. 161-185.
8. *M. E. Abdel-Aal, E. M. Badr*. Odd gracefull labeling for the subdivison of double triangles graphs, International Journal of Soft Computing, Mathematics and Control (IJSCMC), Vol.2, No.1, February 2013.
<http://wireilla.com/ns/math/Papers/2113ijscmc01.pdf>
9. *M. E. Abdel-Aal*. New Classes of Odd Graceful Graphs, International journal on applications of graph theory in wireless ad hoc networks and sensor networks (GRAPH-HOC) Vol.5, No.2, June 2013.
<http://wireilla.com/ns/math/Papers/3114ijscmc01.pdf>
10. *M. E. Abdel-Aal*. Odd harmonious labelings of cyclic snakes, International journal on applications of graph theory in wireless ad hoc networks and sensor networks (GRAPH-HOC) Vol.5, No.3, September 2013.
<http://airccse.org/journal/graphhoc/papers/5313jgraph01.pdf>
11. *M.E. Abdel-Aal, S. Minion, C. Barrientos and D. Williams*. The Mean Labeling of Some Crowns, Journal of Algorithms and Computation 45 (2014) PP. 43 - 54,
[file:///C:/Users/Mohamed/Downloads/JAC3541419885000%20\(2\).pdf](file:///C:/Users/Mohamed/Downloads/JAC3541419885000%20(2).pdf)
<http://jac.ut.ac.ir>

12. *M. E. Abdel-Aal*. New families of odd harmonious graphs, International Journal of Soft Computing, Mathematics and Control (IJSCMC), Vol. 3, No. 1, February 2014.

<http://wireilla.com/ns/math/Papers/3114ijscmc01.pdf>

13. *M.E. Abdel-Aal*. further results on odd harmonious graphs,

International journal on applications of graph theory in wireless ad hoc networks and sensor networks (GRAPH-HOC) Vol.8, No.3/4, December 2016 (Seoud, M. A.)

<http://airconline.com/graphhoc/V8N4/8416graphhoc01.pdf>

(9) List of Papers Presented in Conferences:

1. Mohamed El-sayed Abdel-Aal. Investigations for the linear overdetermined system of three equations contains second order hyperbolic equation with super- singularity manifold by different parameters. Proceedings of international **Russian-Bulgarian** symposium "the Equations of the mixed type and related problems of the analysis and computer science "2010, pp. 200-202.
2. Mohamed El-sayed Abdel-Aal. About one class of the degenerating overdetermined system of three equations contains second order hyperbolic equation. Proceedings of scientifically - theoretical conference of the faculty of mathematics, Dushanbe, **Tajikistan**, 2010, pp. 12-15.

(10) References:

1- Name : Prof. Rajabov Nusrat Rajabov , D.Sc. (My Supervisor)

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2- Name : Prof. Maher zayed (My Supervisor)

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3- Name : Prof. Abdelkarem. A. Soliman

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