

# **CURRICULUM VITAE**



## Prof. Adel Ali Mohamed Abou El-Ela

Electrical Engineering Dept., Faculty of Engineering, Minoufiya University, Shebin El-Kom, Minoufiya, Egypt

جامعة المنوفية لية الهندسة بشبين الكوم

#### • Personal Information

Date of Birth: 24/12/1954Nationality: Egyptian

• Marital Status: Married, (3 children)

• Religion: Muslim

• Tel.: +2 040/3346822 - **Mob:** +2 0124132264 **Fax:** +2 03/4254942

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#### Current Occupation

Professor at Electrical Engineering Department, Faculty of Engineering, Menoufiya University, Egypt

• Dean, Alexandria High Institute of Engineering and Technology

#### • Education and Academic Degrees

• Degree: Professor at Electrical Engineering Department

• Year: March 1992

• Faculty: Faculty of Engineering, Shebin El-Kom

• University: Minoufiya University

• Degree: Ph.D. in Electrical Engineering

Year: July. 1984

• Faculty: Faculty of Engineering, Institute of Technical Combustion

• University: Menoufiya University, Egypt

• Thesis Title: "Security Assessment in Power System Operation".

• Degree: M.Sc. in Electrical Engineering

• Year: July 1980

Faculty: Faculty of EngineeringUniversity: Minoufiya University

• Thesis Title: "A Comparison Study of Power Flow Methods in Electrical Networks".

• Degree: B.Sc. in Electrical Engineering

• Year: May 1977

Faculty: Faculty of EngineeringUniversity: Minoufiya University

#### • Language & Computer Skills

• English: excellent (Reading/writing/speaking).

• ICDL Certificate.

#### • Teaching and Research Topics

- i- Under-Graduate Courses:
  - a- Electrical Power Network.
  - b- Electrical Power Analysis.
  - c- Electrical Instruments.
  - d- Electrical Measurement.
  - e- Computer Languages and its applications.
  - f- Electrical Drawing.
  - g- Electrical Power B. Sc. Projects.
  - h- Economics of Power Systems.
  - i- Laboratories of Electrical Power.
  - j- Economic of Installation.
  - k- Quality Assurance
- ii- Post-Graduate:
  - a- Security Assessment in Power Systems Operation.
  - b- Optimal Operation and Planning of Power Systems.
  - c- Optimal Control of Active and Reactive Powers.
  - d- Load Forecasting of Power Systems.
  - e- Reliability of Power Systems.
  - f- Numerical Analysis for Power Systems.
  - g- AC and DC Transmission Lines.
  - h- Optimal Reserve and Load Shedding.
  - i- VAR Compensators.

### • Research Projects

- 1- Workshop for Higher Education Enhancement Project Fund (HEEPF) Menoufiya University on 9-10 March 2004.
- 2- Workshop for Tighter Education Enhancement Project Fund (TEMPUS) under the supervision by Dr. Hany Helal, the ministry of Higher Education and Scientific Research at Menoufiya University in year 2005.
- 3- Workshop for FP6 FP7 project funded by the European Union which was held by scientific research academy in Cairo in May 2005 and Shebin El-Kom in 18 April 2007.
- 4- Workshop for Higher Education Development Project "Credit hour system" between Menoufiya and Helwan universities which was held at Helwan university on 9 January, 2005.
- 5- Higher Education and Scientific Research Conference part of "Quality Assurance and Accreditation" which was held on 12-22 March 2006 at Cairo university.
- 6- Workshop of University Leader Meeting "Student Assessments" A Mandatory Requirement for Accreditation Workshop" which was held on 30 October, 2006.
- 7- Quality Assurance and Accreditation for higher Education Conference "Way of Future" which was held on 16 January, 2007 at Cairo university.

#### **CONSULTANTS**

- 1- Design of the Electrical Installation of the Tala City Hospital in Menoufiya Governorate 1988.
- 2- Made some researches related to "Complete Strategy for Optimal Active and Reactive Load Flows", Sharing with two Staff Members at Imperial College in London, U.K., from 1991-1993.
  - Prof. Dr. B. Cory Imperial College, London.
  - Prof. Dr. Mike Short Imperial College, London.
- 3- Made some researches related to "Power system Protection", Sharing with Prof. Dr. Alin June at City University, London, from November 1990 to May 1991.
- 4- Editor of Engineering Research Journal (ERJ), Faculty Engineering in different Egyptian Universities.

- 5- Reviewer of the IASTED International Journal of Modeling and Simulation, Washington, D.C., USA.
- 6- Reviewer of the Energy and Power Systems Journal, in USA.
- 7- Reviewer of the Engineering Research Bulletin, Faculty of Engineering, Menoufiya University, Shebin El-Kom, Egypt.
- 8- Reviewer of the Engineering Research Bulletin, Faculty of Engineering, Ain Shams University, Cairo, Egypt.
- 9- Reviewer of the Engineering Research Bulletin, Faculty of Engineering, Alexandria University, Egypt.
- 10- Reviewer of the 9th International Middle East Power Systems Conference MEPCON'2003.
- 11- Reviewer of the 19th International Middle East Power Systems Conference MEPCON'2006.
- 12- Chairman Director and Consultant for Computer Services Center in Tanta City, Egypt, from 1986 to 1988.
- 13- Chairman Director and Consultant for computer languages in International Institute of Computer in Tanta City, Egypt, from 1988 to 1993.
- 14- Consultant and Head of Computer Department in Education and Training Institute, Abha, Saudi Arabia, from Nov. 1995 to August 2002.
- 15- Consultant and Head of committee for handing out the:
  - a) Project No. B-137-No which was carried in Faculty of Agriculture Shebin El-Kom, Menoufiya University in September 20, 2006.
  - b) Project No. D-147-P2 which was carried in Faculty of Engineering Aswan, South of valley University in November 9, 2006.

#### • Recent Publications

- 1- A. A. Abou EL Ela, M. A. Abido, and S. R. Spea, "Optimal Power Flow using Differential Evolution Algorithm", Electric Power Systems Research, Vol. 80 (2010), pp. 878–885.
- 2- A. A. Abou EL Ela, M. A. Abido, and S. R. Spea, "Differential evolution algorithm for emission constrained economic power dispatch problem", Electric Power Systems Research, Vol. 80 (2010), pp.1286–1292.
- 3- A. A. Abou EL Ela, M. A. Abido, and S. R. Spea, "Differential Evolution Algorithm For Optimal Reactive Power Dispatch", accepted for publication in Electric Power Systems Research, available online at: http://dx.doi.org/10.1016/j.epsr.2010.10.005
- 4- A. A. Abou EL Ela, M. A. Abido, and S. R. Spea, "Multi-objective Differential Evolution Algorithm For Environmental-Economic Power Dispatch Problem", accepted for publication in IEEE EnergyCon 2010, December 18-22, 2010 at Manama, Bahrain.
- 5- T. Fetouh, M. A. Abido, and A. A. Abou El-Ela, "Analysis and Design of SVC-Based Stabilizer using Particle Swarm Optimization Technique", Engineering Research Journal (ERJ), Vol. 33, No.1, January 2010, pp 15-20, Minoufiya University, Egypt.