

November, 25<sup>th</sup>, 2014

## CURRICULUM VITAE

**Dr. Ali F. Al-Shawabkeh**

**NAME: Ali Faleh Abdelnabi Al-Shawabkeh**  
**PhD., MSc., BSc.(Hons.)**



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### ADDRESS FOR CORRESPONDENCE:

Al-Balqa' Applied University, Faculty of Engineering Technology, Applied Sciences Department,

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### PERSONAL INFORMATION:

Marital Status: Married

National Number: 9631000262

Nationality: Jordanian

Passport No.: L 137737

Place of Birth: Al-Khashafieh

Date of Birth: 15<sup>th</sup> July, 1963

### ACADEMIC QUALIFICATION:

- **General Secondary Education Certificate**, (1982): Scientific Stream, Amman – Jordan.
- **B.Sc. (Hons.)** Degree in Applied Chemistry, (1987): Department of Applied Chemistry, Karachi University, Karachi - Pakistan.
- **M.Sc.** Degree in Applied Chemistry (Chemical Process Industries – Organic). (1989): Department of Applied Chemistry, Karachi University, Karachi - Pakistan.
- **Ph.D.** Degree in Chemistry (Industrial Chemistry). (1997): Department of Chemistry, Mosul University, Mosul - Iraq.

### THESIS :

#### - **Ph.D. Dissertation**

“ The Synthesis of Some Unsaturated Poly – Schiff’s Bases and the Study of Their Electrical Conductivity ”, Department of Chemistry, The University of Mosul at Iraq, Aug.1997, (Supervisor : Prof. Dr.Yousif A. Shahab).

#### - **M.Sc. Dissertation**

“ Ammonia and Urea Manufacture – Fertilizers ”, Department of Applied Chemistry, The University of Karachi at Pakistan, Sept. 1989,( Supervisor : Prof. Dr. Fasihullah Khan).

### RESEARCH INTEREST :

- **Publications:** More than 26 research papers in the field of Industrial & Applied Chemistry, Polymers Conductivity, Plastic Recycling, Corrosion Chemistry, Food, Water Chemistry and Environmental Pollution, published in specialized scientific journals.

- **Books:** \* **Biochemistry**, Al-Yazori Publishing House, Amman, (2001).  
\* **Environment and Society**, Dar Al-Shorok, Amman, (2003, 2008, 2010).  
\* **Biochemistry**, Dar Qandeel, Amman, (2010).  
\* **Cosmetic Chemistry and Preparations**, Dar Qandeel, Amman, ( 2011).

#### **ACADEMIC AND ADMINSTRATIVE EXPERIENCES:**

- **Vice-Dean for Academic Affairs**, Faculty at Engineering Technology, at Al Balqa' Applied University (BAU), Sept. 2014 - Present.
- **Assistant Professor A**, Applied Sciences Department, Faculty of Engineering Technology (FET), at Al Balqa' Applied University (BAU), Oct. 2011 – Present.
- **Assistant Professor**, Applied Sciences Department, Faculty of Engineering Technology (FET), at Al Balqa' Applied University (BAU), Sept. 2006 - Oct. 2011.
- **Instructor**, Basic Sciences Department, Faculty of Engineering Technology (FET), at Al Balqa' Applied University (BAU), June 1999 - Sept. 2006.
- **Dean's Assistant for Planning & Development and Community Affairs**, Faculty of Engineering Technology, at (BAU), Sept.2005 – Sept. 2006.
- **Dean's Assistant for Student Affairs**, Faculty at Engineering Technology, at (BAU), Sept. 2004 - Sept.2005.
- **Dean's Assistant for Associate Degree Affairs**, Faculty at Engineering Technology, at (BAU), Sept. 2003- Sept.2004.
- **Chairman of Basic Sciences Department**, Faculty at Engineering Technology, at (BAU), Sept. 2001 – Sept. 2003.
- **Instructor**, Amman Coll. for Engineering Technology, Ministry of Higher Education, Nov. 1997- June 1999.
- **Teacher & Head** of the Industrial Laboratories and Medical Secretariat Sections, Princes Alia Community College, Ministry of Higher Education , Jan. 1994 – Oct.1994
- **Teacher**, Amman Community College, Ministry of Higher Education, Oct. 1992 – Jan. 1994.
- **Medical Laboratory Technician, Conscript**, Royal Medical Services, Mar. 1990 – Apr. 1992.

#### **MAJOR COURSE WORK:**

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|---|--|
| - General Chemistry 101                         | - General Chemistry 102                    |
| - Organic Chemistry                             | - Polymer and Plastic Technology           |
| - Environment and Society                       | - Analytical Chem. & Instrumental Analysis |
| - Organic Chemistry Lab.                        | - Experimental Chemistry 101               |
| - Experimental Chemistry 102                    | - Polymer and Plastic Technology Lab.      |
| - Analytical Chem. & Instrumental Analysis Lab. |  |

#### **AREAS OF PROFICIENCY:**

Polymer Synthesis (Physical Properties of Polymers), General & Organic Chemistry, Plastic Industries & Recycling, Petrochemical Technology, Industrial Chemistry, Water Management, Corrosion Chemistry, Food Chemistry, Ecology and Environmental Pollution.

## PROFESSIONAL ACTIVITIES:

- **Chairman of the Higher Examination Committee**, Faculty of Engineering Technology, Al-Balqa' Applied University, Oct. 2014-2015.
- **Chairman of the Scientific Research Committee**, Faculty of Engineering Technology, Al-Balqa' Applied University, Sept. 2014-2015.
- **Chairman of the Curricula Committee**, Faculty of Engineering Technology, Al-Balqa' Applied University, Sept. 2014-2015.
- **Member of the Faculty of Engineering Technology Council**, Vice-Dean for Academic Affairs, Faculty of Engineering Technology, at (BAU), Sept. 2014-2015.
- **Chairman of the Employees Club Committee**, Faculty of Engineering Technology, Al-Balqa' Applied University, November 2013.
- **Member of the Students Investigation Committee**, Student Affairs, Faculty of Engineering Technology, Al-Balqa' Applied University (BAU), 2013-2014.
- **President of Jordanian Aqua Conservation Association. ( JACA ).** Amman, 5<sup>th</sup> Sept. 2012–Now.
- **Chairman of the Cultural and Media Committee**, Symposium: " Academic Programs and Community Awareness of the Universities Students ", In Cooperation between Jordan Academicians League & Middle East University, Amman, 18<sup>th</sup> May 2011.
- **Member of the Faculty of Engineering Technology Council**, Representative of Applied Sciences Department, Al-Balqa' Applied University , 2010-2011.
- **Member of the General Safety Committee**, Faculty of Engineering Technology, Al-Balqa' Applied University , 2010-2011.
- **Member of the Appointments and Promotion Committee** , Faculty of Engineering Technology, Al-Balqa' Applied University( BAU), 2009-2010.
- **Member of the Local Community Committee** , Faculty of Engineering Technology, Al- Balqa' Applied University( BAU), 2009-2010.
- **Representative of the Jordanian Chemical Society** in Al-Balqa' Applied University ( BAU), 2009.
- **Strategic Dialogue Program for University Presidents, Deans of Jordanian Colleges and Jordanian Academic**, College of Royal Jordanian National Defence, 3<sup>rd</sup> – 5<sup>th</sup> March, 2009, Amman – Jordan.
- **Member of Technical Application in Industry Committee**, Higher Council of Science and Technology, Feb. 2009, Amman – Jordan.
- **Chairman of General Safety Committee** , Faculty of Engineering Technology , Al-Balqa' Applied University , 2008-2009.
- **Chairman of the 2<sup>nd</sup> Scientific day committee** for Basic Sciences Department, Faculty of Engineering Technology, Al-Balqa' Applied University( BAU), 2007-2008.
- **Chairman of Quality & Development and Planning Committee** , Faculty of Engineering Technology, Al-Balqa' Applied University( BAU), 2005-2006.
- **Chairman of Consulting & Continuoung Education Committee**, Faculty of Engineering Technology, Al-Balqa' Applied University (BAU), 2005-2006.
- **Chairman of Students Investigation Committee**, Student Affairs, Faculty of Engineering Technology, Al-Balqa' Applied University (BAU), 2004-2005.
- **Member of the Preliminary Committee** of the Workshop "The 2<sup>nd</sup> National Week for Safety and Vocational Health" , BAU & Ministry of Labour, June 2005.
- **Chairman of the Associate Degree Graduation Committee**, Faculty of Engineering Technology, Al-Balqa' Applied University (BAU), July 2005.

- **Member of the Higher Committee** of Graduation and Year Book at *Al-Balqa' Applied University (BAU), 2004-2005.*
- **Chairman of the Students Assembly - Association Election Committee**, *Student Affairs, Faculty of Engineering Technology, BAU, 2004-2005.*
- **Member of the Solid Waste System Committee**, Systems & Law of Environment Protection, *Ministry of Environment, Amman, May 2003.*
- **Member of Chemicals & Hazardous Substances Committee**, Systems & Law of Environment Protection, *Ministry of Environment, Amman, May 2003.*

### **Supervision of Master' s Theses:**

- 1) " Removal of Some Organic Pollutants from Aqueous Solutions Using Surfactants Modified Jordanian Kaolinite " , (2014-2015).
- 2) " Determination the Factors of Environmental Management System (ISO 14001) in the Context of Quality Management and Cleaner Production as a Mediator Variables on the Environmental Performance. Applied Study: Lafarge Jordan Cement Factory " , (2014-2015).

### **Master Theses Examining Committees:**

I was an internal/external examiner for many master theses:

- **Member of Examination Committee** for Master Degree in Applied Chemistry, " Determination of Some Mineral Content in Selected Types of Jordanian Honey " , *Faculty of Graduate Studies , Al-Balqa' Applied University , 28<sup>th</sup> April, 2013.*
- **Member of Examination Committee** for Master Degree in Applied Chemistry, " Determination of Castor Oil in Pharmaceutical Form by Gas Chromatography " , *Faculty of Graduate Studies , Al-Balqa' Applied University , 6<sup>th</sup> December, 2012.*
- **Member of Comprehensive Examination Committee in Organic Chemistry & Inorganic Chemistry** for Master Degree in Applied Chemistry, *Applied Chemistry Department, Faculty of Graduate Studies , Al-Balqa' Applied University , Summer Semester, 8<sup>th</sup> & 12<sup>th</sup> July, 2012.*
- **Member of Examination Committee** for Master Degree in Materials Physics , " Dependence of Electrical Conductivity on Composition in Selenium-Tellurium-Tin Semiconducting Glasses " , *Faculty of Graduate Studies , Al-Balqa' Applied University , 21<sup>st</sup> April, 2011.*
- **Member of Comprehensive Examination Committee in Inorganic Chemistry & Organic Chemistry** for Master Degree in Applied Chemistry, *Applied Chemistry Department, Faculty of Graduate Studies , Al-Balqa' Applied University , 2<sup>nd</sup> Semester, 10<sup>th</sup> & 15<sup>th</sup> March, 2011.*
- **Member of Examination Committee** for Master Degree in Applied Chemistry , " High Performance Liquid Chromatographic Method for Determination of some Oxicams in Pharmaceutical Formulation " , *Faculty of Scientific Research and Graduate Studies , Al-Balqa' Applied University, 28<sup>th</sup> December, 2010.*
- **Member of Examination Committee** for Master Degree in Physics , " Opto-Electric Behavior of (Se<sub>90</sub>Te<sub>4</sub>Sn<sub>6</sub>) and (Se<sub>90</sub>Te<sub>2</sub>Sn<sub>8</sub>) Chalcogenide Glasses " , *Department of Physics, Faculty of Scientific Research and Graduate Studies , Al-Balqa' Applied University , 5<sup>th</sup> August, 2009.*

- **Member of Examination Committee** for Master Degree in Applied Geology , " Heavy Metals Uptake by Olive Mill Solid Residues ", *Department of Environment and Natural Resources, Faculty of Scientific Research and Graduate Studies , Hashemite University, 14<sup>th</sup> May, 2009.*
- **Member of Examination Committee** for Master Degree in Applied Chemistry , "Chemical Modification of Jordanian Diatomite and its Use for the Removal Pollutants from Water", *Faculty of Scientific Research and Graduate Studies , Al-Balqa' Applied University, 6<sup>th</sup> January, 2009.*
- **Member of Examination Committee** for Master Degree in Applied Chemistry , " A Method for the Determination of Triclabendazole and Ivermectin in Combination by High Performance Liquid Chromatography", *Faculty of Scientific Research and Graduate Studies , Al-Balqa' Applied University, 22<sup>nd</sup> May, 2008.*

## RESEARCH PAPERS (PUBLICATIONS):

### Published Articles:

- 1) " Factors Affecting the Rates of Diels-Alder Reaction, and the Cause of Nucleophilic-Electrophilic Dual Behaviour of Reactants " .
- 2) " Influence of Linear Alkyl Benzene Sulphonate on Corrosion of Iron in Presence of Magnetic Field ; Kinetics and Thermodynamics Parameters " .
- 3) " Effect of Raising the Environmental Awareness on Reducing Kitchen Water Consumption by Jordanian Families Living in Amman City" .
- 4) " Structural relaxation due to sub-T<sub>g</sub> annealing of Se<sub>98</sub>In<sub>1.5</sub>Sn<sub>0.5</sub> chalcogenide glass " .
- 5) " Utilization of Jordanian Oil shale : Status and Future Prospects " .
- 6) " Meltability and Stretchability of White Brined Cheese : Effect of Emulsifier Salts " .
- 7) " The Development of Technical and Vocational Education in Jordan: Reality and Prospects" .
- 8) " Utilization of Soft Wood Wastes as a Feed Stock to Produce Fuel Ethanol " .
- 9) " Amelioration the Quality of Plastic Pellets Produced by Plastic Recycling Processes in Jordan " .
- 10) " The Effect of Adjusting PH on Stretchability and Meltability to White Brined Nabulsi Cheese " .
- 11) " Nutritive Value of Seven Varieties of Meat Products ( Sausage ) Produced in Jordan " .
- 12) " Evaluation of Fat and Vitamin E in Some Cookies Diet " .
- 13) "An Overview of the Jordanian Oil Shale : Its Chemical and Geological Characteristics, Exploration, Reserves and Feasibility for Oil and Cement Production" .
- 14) " The Role of Jordan in Encouraging Investment of the Private Sector in Higher Education and Scientific Research" .
- 15) " Damage Inflicted by Traffic Pollution on Historic Building in Al-Salt City, Jordan" .
- 16) " Evaluation of the Chemical and Sensory Attributes of Standard Freeze – Dried Jameed Produced from Cow and Sheep Milk with the Addition of Carrageenan Mix to the Jameed Paste" .
- 17) " Jordanian Oil Shale : A Promising Source of Energy " .
- 18) " Temperature dependence of the electrical conductivity of some conjugated polyazomethines " .
- 19) " Cobalt and zinc removal from aqueous solution by chemically treated bonetonite " .
- 20) " The role of weak hydrogen – bonds on the formation of short - lived molecular association " .
- 21) " Traffic Pollution in Urban Jordan" .

22) " Effect of Storage on Vitamin E and Fat Oxidation of Some Type of Cakes",

## **SOCIETIES & MEMBERSHIP:**

Jordanian Chemical Society. ( JCS ).  
Jordanian Aqua Conservation Association. ( JACA ).  
Jordan Academicians League. (JAL).

## **GRANTED PROJECTS:**

- Researcher & Coordinator Project: “ **DAAD – Fact Finding Mission – Cleaner Production in Jordanian Industries**” , Funded by: *DAAD & Dresden Technical University – Germany, 11<sup>th</sup> – 17<sup>th</sup> May / 2013.*
- Expert and consultant in E.I.A. project: “ **Environmental Impact Assessment on Alternative Fuels for cement industry**”. Funded by: *Alrashadeyah Cement Factory/Lafarge & Ministry of Environment, Activities performed: Conducting E.I.A for the proposal of using Fuels (Tiers, Farm waste, waste oil, Zibar and Municipal waste) in cement industry, 5<sup>th</sup> January – 5<sup>th</sup> May / 2012, Amman – Jordan.*
- " **Amelioration the Quality of Plastic Pellets Produced by Plastic Recycling Processes in Jordan** ", Funded by: *Jordan Upgrading & Modernisation Programme (JUMP), National Programme – Faculty For Factory ( FFF ), 5<sup>th</sup> Cycle ( 2007 ), University of Jordan, 1<sup>st</sup> June – 5<sup>th</sup> November / 2007, Amman – Jordan.*
- " **Treatment of Industrial Wastes Produced from Plastic Recycling Processes in Jordan** ", Funded by: *Ministry of Higher Education & Scientific Research, National Programme – Faculty For Factory ( FFF ), 6<sup>th</sup> Cycle ( 2008 ), University of Jordan, 10<sup>th</sup> June – 25<sup>th</sup> October / 2008, Amman – Jordan.*

## **Proposals Submitted for Research Grant:**

- " **Reducing the Organosulfur Contents from the Petroleum Refinery Wastewater Using Inorganic Adsorbent Materials and Solar Energy** ", Jordan Aqua Conservation Association (JACA) & GTZ, 2014.
- " **Water Quality Assesment of Cisterns and Tanks Rainwater Harvesting** ", USAID & Jordan Aqua Conservation Association. ( JACA ), 2014.

## **PEER-REVIEW SERVICES:**

- 1) **Grant applications** : Reviewed grant project proposal entitled : “ **Air Quality Improvement in Doha through Vehicle Emission Control in Transportation Planning and Operations** ”, Qatar National Research Fund’s (QNRF’s) , No. 974 – 2 – 400 , NPRP 6<sup>th</sup> Cycle 2012, Peer Review Program, March - April, 2013.
- 2) **Grant applications** : Reviewed grant project proposal entitled : “ **Adaptive Water Resources Management under Global Environmental Change** ”, Qatar National Research Fund’s (QNRF’s) , No. 580 – 1 – 105 , NPRP 7<sup>th</sup> Cycle 2013 , Peer Review Program, February - March, 2014.
- 3) **Grant applications** : Reviewed grant project proposal entitled : “ **Occurrence and Remediation Characteristics of Phthalates and Bisphenol - A from Bottled Water and Household Tank in Qatar** ”, Qatar National Research Fund’s (QNRF’s) , No. 16

- 064 – 1 - 009 , UREP, 2014 , Peer Review Program, May - June, 2014.

4) SSREP ( Secondary School Research Experience Program) 4<sup>th</sup> cycle research projects, Project Number : SSREP 4 – 286 – 1 – 144, “ **Recycling and Disposal Methods of Electronic Wastes** ”, Peer Review Program, Qatar National Research Fund, October, 2014.

5) SSREP (Secondary School Research Experience Program) 4<sup>th</sup> cycle research projects, Project Number: SSREP 4 – 309 – 1 – 156, “ **The Importance of Polymers Chemistry in Qatar Industries** ”, Peer Review Program, Qatar National Research Fund, October, 2014.

### **Consultations to Industry and Community:**

Consultations to several firms and organizations in the field of Plastic Industries, Solid Wastes (Recycling), Water Management, Industrial Chemistry (Petrochemicals) and environmental pollution.

### **TRAINING COURSES:**

- **A Training Course** in the " Patents on Inventions and its Significance in the Scientific Research ", *Al-Balqa' Applied University & Arab Research Councils Union* , Jordan, 2-4 July. 2006.
- **A Training Course** in " Vocational Guidance Skills & the Preparation for Entering the Work Market - the Leadership & Negotiation Skills" , *National Center for Human Resources Development & (SETVET)*, Mar. 2004.
- **24<sup>th</sup> Training Course** for the Arab Council of Vocational Training, *Arab Federation for Technical Education, Tripoli- Libya*, Mar. 2004.
- **Theoretical and Applied Concepts** "Program Design in Outcome-Based Education and Training", (*BAU*) & *The Jordanian – Canadian Project (SETVET)*, Apr. 2004.
- **Arabic Training Course** in the" Modern Techniques for Environmental Pollution Control", *Arab Federation for Technical Education, Baghdad- Iraq*, Sept. 1994.
- **A course in Educational Evaluation**, Curriculum Directorate, *Ministry of Higher Education*, June , 1993.
- **Practical Training** in the Domain of Chemical Engineering Industries "Ammonia & Urea Fertilizers - Utilities & Water Treatment " , *Pak- Saudi Fertilizer Factory, Sind-Pakistan*, Oct .1988.

### **SEMINARS & WORKSHOPS:**

- **Workshop:** " Violence of the Students in the Universities – Causes and Solutions ", *Consultations, Studies and Training Center, Al-Balqa' Applied University* 2<sup>nd</sup>,17<sup>th</sup> May 2011.
- **Participation: Scientific Day** " MEU Green Go Civil Engineering – GGCE 2011 ", *Faculty of Engineering, Middle East University, Amman*, 12<sup>th</sup> April 2011.
- **Inception Workshop:** " Adaptation to Climate Change to Sustain Jordan's MDG Achievements - A Joint Programme". In Cooperation between UNCT (*UNDP, CEHA-WHO, FAO, and UNESCO*) and the Government of Jordan (*MoPIC, MoEnv, MoH, MoEd, and MWI*), *Amman*, 4<sup>th</sup> March 2010.
- " **Damage Inflicted by Traffic Pollution on Historic Building in Al-Salt City – Jordan** " . In: *Al-Kloub, S. and others ( Eds. ), Al-Balqa' 1<sup>st</sup> Engineering Conference*, 5<sup>th</sup> – 7<sup>th</sup> May, 2008, *Jordan Engineering Association & Al-Balqa Applied University, Salt – Jordan*: 303 – 314.
- **Work shop** for " The 2<sup>nd</sup> National Week for Safety & Vocational Health ", *Al-Balqa' Applied University (BAU) & Ministry of Labour*, June 2005.

- **The 10<sup>th</sup> Jordanian Scientific Week**, " Horizons in Advanced Material Technology & Their Role in the Economy of Jordan ", *The Higher Council of Science & Technology* , Sept.2004.
- **Environmental Day Activities**," National Recycling Day", Recycling Project, *Jordan Environment Society (JES)*, Sept. 2004.
- "**Management for Leadership in Educational & Training Foundation** ", *The Jordanian –Canadian Project for Vocational & Technical Education (SETVET / NCHRD)*, Mar. 2004.
- "**Design of Performance Measurement Frame work**", *Jordanian- Canadian Project (SETVET) & The National Center for Human Resources Development*, Amman, Mar. 2004.
- **Workshop** about " The National Proposal of Persistent Organic Pollutants Project (POPs) ", *United Nation Environmental Programe & Ministry of Environment*, Amman, May 2004.
- **Environmental Day**," Global Ozone Day ", *Ministry of Tourism & Ministry of Environment*, Amman, Sept. 2004.
- **Launching Stationary** " Persistent Organic Pollutants Project (POPs) ", *United Nation Environmental Programe & Ministry of Environment*, Amman, May 2003.

### CONFERENCES:

- **Attending:** " National Conference For the Development of Study Plans, Teaching and Learning, and Scientific Research", *Ministry of Higher Education and Scientific Research in Cooperation with Columbia University – Middle East Research Center*, Amman, 15<sup>th</sup> – 17<sup>th</sup> June 2010.
- **Member of Preliminary Committee** of " The Tenth Jordanian Chemical Conference (10<sup>th</sup> JCC)", *Jordan University for Science and Technology & Jordanian Chemical Society*, 13<sup>th</sup> May 2010.
- **Participation:** " Damage Inflicted by Traffic Pollution on Historic Building in Al-Salt City, Jordan". In: *Al-Kloub S. and others ( Eds.), Al-Balqa' First Engineering Conference*, 5<sup>th</sup> -7<sup>th</sup> May, 2008, *Jordan Engineering Association*, Al-Salt – Jordan, 01:303 – 314
- **Attending:** " The 8<sup>th</sup> Jordanian Chemistry Conference (8<sup>th</sup> JCC)", *Jordanian Chemical Society in Cooperation with Department of Chemistry, Petra University*, 21<sup>st</sup> April 2008.
- **Member of Preliminary Committee** of the Conference "Jordan.. National History-Nation Future" , *Al Balqa' Applied University (BAU)*, Dec.2005.
- **Member of the Preliminary Committee** of the International Conference "Recent Trends in Oil Shale" 2006, *Al Balqa' Applied University (BAU)*, Sept.2005.

### Certified Tests:

- **International Computer Driving Licence, ICDL Certificate**, (2009), issued by *European Computer Driving Licence Foundation*, S.No. UN 08 02 1256, 04-Jun-2009.
- **Acourse in Computer Programming (BASIC)**, *National Center for Vocational Sciences*, 1<sup>st</sup> Feb.-21<sup>st</sup> April,1994, 66 Credit Hours, Amman – Jordan.
- **Acourse in Data Treatment in Computer**, *National Center for Vocational Sciences*, 26<sup>th</sup> Dec. 1993- 26<sup>th</sup> Feb.,1994, 48 Credit Hours, Amman – Jordan.
- **Acourse in Basic LOTUS**, *National Center for Vocational Sciences*, 1<sup>st</sup> Jan.-14<sup>th</sup> Feb.,1994, 24 Credit Hours, Amman – Jordan.
- **Acourse in Operating System (DOS)**, *National Center for Vocational Sciences*, 25<sup>th</sup> Nov.- 25<sup>th</sup> Des.,1993, 24 Credit Hours, Amman – Jordan.