

## Dr. Eng. Tamer Farouk M. A. Khalifa

*Professor of Textile Quality control & testing*

*Textile Spinning & Weaving Dept.*

*Helwan University*

*Vice Dean for students affairs- Faculty of Applied Arts*

*– BADR University in Cairo – Egypt*

*Former Acting Vice-Dean for Postgraduate studies & Research - Faculty of Applied Arts Helwan University*



### Education

**Doctor of Philosophy (Ph.D.)** **1998-2002**

Helwan University/North Carolina state university – College of Textile (Joint PhD program) Egypt / USA

**Master of Science – Textile Engineering** **1994-1998**

Faculty of Applied Arts – Helwan University  
Giza, Egypt

**Bachelor of Science** **1988-1993**

Faculty of Applied Arts – Helwan University – Textile Spinning/Weaving/Knitting Dept.  
Giza, Egypt

**Thanaweya Amma, Science (Math) Major** **1987**

Gizera language School Zamalek – Cairo - Egypt

### Professional career experience

<b>2017 – Present</b>	<b>Vice-Dean for student’s affairs</b> <b>Faculty of Applied Arts – BADR University in Cairo.</b>
<b>2015 –2017</b>	<b>Acting Vice-dean for Postgraduate studies and research –</b> <b>Faculty of Applied Arts – Helwan University.</b>
<b>2012 – Present</b>	<b>Professor of textile Quality control and testing in Textile (Spinning, Weaving and Knitting) Dept. – Faculty of Applied Arts – Helwan University.</b>
<b>2007 – 2012</b>	<b>Associate professor in Textile (Spinning, Weaving, and Knitting) Dept. – Faculty of Applied Arts – Helwan University.</b>
<b>2002 –2007</b>	<b>PhD Lecturer in Textile dept. – Faculty of Applied Arts – Helwan Univ.</b> <b>Lecturer of technical textiles, weaving machines and mechanics, environmental affairs and pollution prevention strategies.</b>
<b>1997 – 2002</b>	<b>Asst. lecturers in Textile dept. - Faculty of Applied Arts – Helwan Univ.</b>
<b>1994 – 1997</b>	<b>Asst. researcher in Textile dept. - Faculty of Applied Arts – Helwan Univ</b>

### Experience

- Academic managerial experience in strategic planning, executive plans, QA for academics, Bylaws for both graduate and undergraduates, credit hour systems, teaching methods, universities management systems (UMS), advising and learning management systems (LMS) and international partnership.
- Lecturing experience for almost 30 years.
- **ISO 17025 (For laboratory accreditation) – International Lead assessor and technical assessor and Expert – EGAC (Egyptian accreditation council). (Assessing**

*and accrediting many Textile labs locally and internationally according to ISO 17025).*

- **Technical Assessor for ISO/IEC 17065 product certification -17067 for products certifying bodies, processes and services (Product certification), and ISO17020 Inspection.**
- **EGAC (Egyptian accreditation council) – High Technical committee member for ISO 17043 (Proficiency testing (PT) providers)**
- A member of the reviewers for the promotion of Applied Arts staff members (professors and assistant professors)
- Textile Spinning, weaving and knitting department program academic coordinator (QC) – Faculty of Applied Arts – Helwan University.2011 - 2015
- Lecturing as a part timer at the Faculty of **ARTS & DESIGN** – October University for Modern Sciences and Arts (MSA) – Fashion Dept. from 2012 to 2016.
- Lecturing as a part timer at the Faculty **APPLIED ARTS** – BADR University– Textile Dept. from 2015 till 2017.
- Editorial board of **Journal of textile science and engineering**
- Editorial board at **Global Journals**
- Editor for **Journal of Art, Design and Music**
- Reviewer for SAGE publication (Textiles).
- Reviewer for **Journal of Industrial textiles (JIT).**
- Reviewer for **Indian Journal of Traditional Knowledge (IJTK).**
- Reviewer for **Textile research Journal (TRJ).**
- **Assistant editor for Journal of Art, Design and Music (JADM)**
- Consultation for various projects and factories in the field of textiles.

**Teaching and assisting in the delivering of academic educational courses for undergraduates, and graduates that include:**

**Undergraduate courses:**

- Textile weaving machinery
- Textile Environmental quality systems.
- Textile production management
- Environmental studies in Textile
- Industrial organization and Safety
- Textile quality control (TQM)
- Textile lab (testing)
- Textile material
- Textile preparations
- Textile terminology
- Textile mathematics
- Textile Design economics

**Postgraduate courses:**

- Production technology of technical textiles (pHD courses)
- Design of smart textiles (pHD courses)
- Environmental studies in Textile (Master courses)
- Nonwovens (Master courses)

**In addition, I'm involved in several administrative, academic, and cultural activities in the University, including:**

- Academic advising, Teaching, lecturing and coaching.
- Developing, Monitoring and evaluation of curriculums and programs
- Planning student activities
- Assessing teaching methods and assessments.
- Addressing international mutual cooperations in undergraduate programs

- Setting and execution of strategic plans

**Academic experiences:**

- Associate Editor for International Design Journal (IDJ)
- Textile program Academic Coordinator (Undergraduate program) – Faculty of Applied Arts – Helwan University 2011 - 2015
- Supervising several Master, and PhD thesis related to:
  - Technical textile for armors with Kader factory
  - PCMs applications in the field of textiles with OUTLAST (An American Co.)
  - Medical textile applications
  - Textile management and quality systems.
- A board member of the quality unit at the Faculty of Applied Arts. 2012-2017
- A Board member of the United academic union of the Faculties and Institutions of Applied Arts
- A referee member at the committee of Applied Arts for promoting academic staff.
- A member of several committees – Faculty of Applied Arts – Helwan Univ.
- A board member of the project "**Developing the textile program Faculty of Applied Arts – Helwan university for National accreditation**".
- Teaching "Textile Diploma" – Faculty of Engineering – Cairo University.
- A member of the Egyptian Engineering syndicate.
- A member of Applied Arts Designers Syndicate.
- An ex- board member of Applied Arts Syndicate.
- A member of a joint research and development project titled **Fabrication and Properties of Continuous – Ceramic – Fiber Reinforced Ceramic Matrix Composites (CFCCs)** between Egypt and Germany. (Erlangen Univ.)
- A head of a project team concerned with designing and improving aqueous filters used in textile dye houses for pollution minimization and prevention – **The National campaign for development of textile industry within the framework of research/development and technology roadmap for textile industry in Egypt.**
- A member of QAAP project at Faculty of Applied Arts – Helwan Univ.- For Faculty programme and courses quality and accreditation.
- The first exhibition accompanying the first international conference for the textile department at the national research center - 2004.
- Exhibition at Faculty of Applied Arts "CELLS" - 6 hand tuft pieces -2005.
- National Exhibition of **TEXTILES** in 2014.
- Assessment of textile labs (Governmental and private labs) inside and outside Egypt according to ISO 17025 requirements
- Teaching number of courses at MSA university – Faculty of Art & Design – Fashion department. (Textile material for fashion – textile lab)
- An Ex- board member of the Textile Design and Technology centre at the Faculty of Applied Arts – Helwan University
- A team member in the joint collaboration research project between an American company (**OUTLAST – PCM**) and the Spinning, weaving and knitting dept. – Faculty of Applied Arts – Helwan university.
- The Coordinator on behalf the Spinning, weaving and knitting dept. – Faculty of Applied Arts – Helwan university with the Industrial development authority (**IDA**) in the bilateral joint cooperation.
- A Board member of the Quality Unit for the faculty of Applied Arts – Helwan university from 12/2014.
- A member of the National alliance for knowledge and technology transfer in textile field.
- A member of the "Arab Association for Islamic Civilization and Arts"
- A team member who worked on the research-plan of Helwan university 2016/2017.
- **PhD Helwan Univ. / North Carolina State Univ. (USA) – College of Textile.**  
Designing the fabric construction of aqueous filters (Nonwovens filter design).

**Ph.D. Study**

- **M.Sc Textile dept. – Faculty of Applied Arts – Helwan Univ.**  
Designing the fabric construction of air filters used in air conditioners and purification systems

**Published  
Papers**

**Tamer F. Khalifa** - Designing the fabric construction of air filters in air conditioning units – Master thesis – Helwan Univ. – Faculty of Applied Arts - **1997**

**Tamer F. Khalifa** - Designing the fabric construction of aqueous filters used in wastewater treatment emitted from dye-plants – PhD thesis - Helwan Univ. – Faculty of Applied Arts - **2002**

**Tamer F. Khalifa** - Textile industry and the environment - El Mansoura Univ. 1<sup>st</sup> International environmental conference – **2002**.

**M. Awaad, Tamer F. Khalifa, S.M. Naga, and N.A. Ibrahim** - Alumina fibrous reinforced bodies based on non-woven cellulosic fabrics – The 1<sup>st</sup> International conference of Textile Research division – National research Centre – **2004** - Egypt.

**Y.M. Eid, Tamer F. Khalifa, and G.E. Ibrahim** – Preparation and characterization of antibacterial non-woven fabrics - The 1<sup>st</sup> International conference of Textile Research division – National research Centre – **2004** - Egypt.

**M. Awaad, Tamer F. Khalifa, S.M. Naga, P. Greil, O. Russina, and N.A. Ibrahim** - Fiber-Reinforced Alumina-Based Composites Using Nonwovens Cellulose Fabrics – Ceramic American bulletin – April **2005**.

**S.M. Naga, A.A. El-Maghraby, A.A. El-Rafei, Tamer F. Khalifa, , P. Greil, and N.A. Ibrahim** - Porous Fibrous Mullite Bodies – American Ceramic Society bulletin, Vol.85, No 2, **2006**.

**Tamer F. Khalifa, Ossama Ezz El Din Ali, Ossama Mahrous El Qoubesi** – The effect of altering some structural elements on the properties of summer shirt fabric-with a constant weft cover factor– Helwan Univ. Bulletin – Faculty of Applied Arts - **2006**

**Tamer F. Khalifa** – Plasma treatment modifications for nonwovens fabrics – Helwan Univ. Bulletin – Faculty of Applied Arts - **2006**.

**Tamer F. Khalifa, Maged Kamal**– The impact of environmental management system on the profitability in small and medium textile enterprises– The 5<sup>th</sup> International conference of Textile Research division – National research Centre – **2008** - Egypt.

**M.A. Shosha, Tamer F. Khalifa, and E.A. Taleb** – Antibacterial polyester meshes for hernia repair – The Journal of the Textile Institute – Taylor & Francis Group Ltd – **2009** - UK.

**Tamer F. Khalifa, O.E.D. Halwa, and O.M. Kobesy** – Designing some multilayer fabrics (composites) proper for heat and sound isolation and fire resistance – The 6<sup>th</sup> International conference of Textile Research division – National research Centre – 2009 - Egypt.

**N.A. Ibrahim, Tamer F. Khalifa, M.B. Hossamy, and T.M. Tawfik** – Effect of knit structure and finishing treatments on functional finishes on performance and comfort

properties of cotton knitted fabrics – Journal of Industrial Textiles, Vol.40, No 1, July 2010.

**Tamer F. Khalifa, Ossama Ezz Halwa, and Ossama Kobesy** - Designing textile hybrids reinforced with aluminum scraps – Program of Egypt-Japan seminar “creation of high-tech materials and fibers based on Nano and green technologies - Egypt, 2010.

**N.A. Ibrahim, Tamer F. Khalifa, M.B. El Hossamy and T.M. Tawfik** – factors affecting the functional and comfort related properties of reactive dyed cotton knits– Journal of Industrial Textiles, Vol.41, No 1, July 2011.

**Abla K. El Din, Tamer F. Khalifa, M. Dorgham** – Development of the Spinning, Weaving & Knitting program/faculty of Applied Arts through a comparative study with similar local and international programs – The 2<sup>nd</sup> International Arab conference on quality assurance in higher education (IACQA 2012) – Bahrain 2012

**Tamer F. Khalifa**, – Technical Textiles; Design & Methodology – International design Journal (IDJ) - Vol.2, Issue 3, July 2012.

**Tamer F. Khalifa**, – Functionalization of a multilayer textile filter fabric by Plasma modification – The Indian Textile Journal - 2012.

**Abla K. El Din, Tamer F. Khalifa, M. Dorgham** – Maximizing the beneficiaries of supportive services (workshops and laboratories) in developing the performance of the Educational process in practical faculties and colleges – 2012

**Z.M.Abdel-Mageid, M.H. El-Shakankery, F.A.Metwally, Tamer F. Khalifa and Kh.M. Seddik** – Design a program for improving rates of performance in Egyptian textile enterprises based on Plan layout efficiency criteria – 2<sup>nd</sup> Conference for Industrial Textile researches - NRC , Egypt, 2013.

**T. F. Khalifa**, –; Design & Methodology for Technical Textiles – editorial article - J Textile Sci Eng. - Vol.3, Issue 3, July 2013.

**T. F. Khalifa, M. Dorgham** – Textile recycle and its application – editorial article - J Textile Sci Eng. - April 2014.

**T. F. Khalifa, Ahmed Abd el-Fadeel** – The Role of Branding as One of Marketing Tools in Textile Industry - J Textile Sci Eng. - April 2015

**A.A.Salman, A.I.Faid, T. F. Khalifa, Y.A Abo El Amin** – Penetration of Multi-layered E-Glass Armors by small projectiles – Journal of Basic and Applied scientific researchJ. (Basic appl Sci Res) , 5(5) 8-15, 2015 .

**Doaa H. Elgohary, Mona M. Salem, T. F. Khalifa, Nermin M. Aly, Elham A. Hassan** – Innovative textile technology for dilated cardiomyopathy: “Shape formation of knitted cardiac support mesh” – International Journal of science and research (IJSR). – volume 4 Issue 10, October 2015

**D.H. Elgohary, M.M. Salem, T.F. Khalifa, M.A. Saad, E.H. Sherazy, A.A. Mostafa**, Comparative study between twisted and un-twisted silk sutures’ performance. AACHEN DRESDEN International Textile Conference, November 2015.

**Mokhtar El-Homossani, Mohamed Abdel Gawad, Tamer F. Khalifa, Hafez Said Hafez** – ACHIEVING OPTIMUM THERMAL COMFORT PROPERTIES FOR AUTOMOTIVE SEAT FABRICS - International Journal of advanced research in science and engineering (IJarse). – volume No.4 Issue 11, November 2015

**A.A.Salman, A.I.Faid, T.F.Khalifa, Y.A Abo El Amaim** – Penetration of Multi-Layered E-Glass Armors by Small Projectiles– Journal of basic and applied scientific research . – J. Basic. Appl. Sci. Res., 5(5)8-15, 2015

**Mokhtar El-Homossani, Mohamed Abdel Gawad, Tamer F. Khalifa, Hafez Said Hafez**– Effect of some construction elements on the functional properties of car seat fabrics - International Journal of advanced research in science and engineering (IJarse). – volume No.4 Issue 11, November 2016

**Ashraf A. Shama, Doaa H. Elgohary, Tamer F. Khalifa, Mona M. Salem, Gehan G. Shehab, Nermin Mohamed Aly and Elham A. Hassan** - Pressure-induced left ventricular hypertrophy in canine model of aortic stenosis using nylon tieActa Scientiarum. Biological Sciences, v. 42, e48887, 2020

**Tamer F. Khalifa, Mohamed Abdel Gawad , Ahmed Mohamed Abdul Fadeel** - Potential effects of strategic brand management as a marketing approach on weakness and threats of textile marketing in Egypt . International Design Journal, V.11 Issue 2 - March 2021

**Tamer F. Khalifa, Mohamed Abdel Gawad, Ahmed Mohamed Abdul Fadeel** - The correlation between adopting marketing as a business orientation and its effect on exporting of the textile firms in Egypt's industry. International Design Journal, v.11 Issue 2 - March 2021

**I Elgohary, Tamer F. Khalifa, Mona M. Salem, Nermin M. Aly, Elham Hassan and Ashraf A. shamaa** - Knitted cardiac mesh to support left ventricular hypertrophy: an in vivo experimental study “Supporting left ventricular hypertrophy using cardiac support mesh”- . RJTA – Research Journal of Textile and Apparel -, v.25 Issue 4 - October 2021

#### **Attended Training Courses**

- An assessment visit for textile lab with UKAS at UK-Manchester.
- ISO 17025 (laboratory accreditation) and several related courses.
- ISO 17065 and 17067 for product certification and certification bodies.
- ISO 17011 for Conformity assessment.
- ISO 17065 (Product certification).
- Proficiency testing, and uncertainty budget.
- Several Special courses in Textiles held by IMC.
- Several courses in Education performance, decision making, strategic planning, quality assurance, and accreditation
- QA in academics.
- Attended several workshops in several fields (Delivered upon request)
- PREMA (profitable environmental management) courses (4 modules).

#### **Patency's**

**1- Patent No:27479 31/12/2018**

(Loosen natural Silk surgery sewing threads for animals)

**2- Patent No:29110 29/2/2016**

(A method for designing, forming and production of textile meshes pocket for supporting heart cardiac muscle for animals)

**Awards** Several certificates; related to training courses, workshops, conferences, assessments,...etc

**PARTICIPATION  
AT SCIENTIFIC  
CONFERENCES**

1. El Mansoura Univ. 1st International environment conference – 2002.
2. The 1<sup>st</sup> International conference of Textile Research division – National research Centre – 2004 - Egypt
3. The 5th International conference of Textile Research division – National research Centre – 2008 - Egypt.
4. The 6th International conference of Textile Research division – National research Centre – 2009 - Egypt.
5. Program Conference of Egypt-Japan seminar “creation of high-tech materials and fibers based on Nano and green technologies - Egypt, 2010.
6. The 2nd International Arab conference on quality assurance in higher education (IACQA 2012) – Bahrain 2012
7. 2nd Conference for Industrial Textile researches - NRC , Egypt, 2013.
8. AACHEN DRESDEN International Textile Conference, November 2015.

**Personal Data**

**Date of Birth** September 25<sup>th</sup>, 1970  
**Place of Birth** Cairo, Egypt  
**Nationality** Egyptian

**Address**

26 El Attebaa St. from Mohy EL Din Abou El Ezz, in front of Gate (4) Dokki shooting-club)- El Mohandseen – Giza - Egypt

**Mobile**

0122/3824643

**Email**

[tamer.farouk@buc.edu.eg](mailto:tamer.farouk@buc.edu.eg)  
[tamerkhalifa@hotmail.com](mailto:tamerkhalifa@hotmail.com)

**ORCID No.**

0000-0003-2245-4604

**Google scholar**

<https://scholar.google.com.eg/citations?user=u0Z4uMQAAAAJ&hl=en>