

# Curriculum Vitae of Prof. Dr. Jamal Al Abbas

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**Father name:** Youssef

**Place and date of birth:** Hama - 2/11/1959

**Nationality:** Syrian Arab

**Current Address:**

Yarmouk Private University

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**Languages:**

- Arabic
- Russian
- English

**Academic Qualifications:**

1. PhD in Mechanical Engineering Specializing in Thermal Machines from Technical Petersburg University-Saint Petersburg -Russia " Design of a Closed-Circuit Cooling System for Guide Vanes of Gas Turbines Operating in 1991

Power Plants".

2. Bachelor of Mechanical Engineering from Damascus University 1983
3. Graduation project: Heating and conditioning of a hotel tower in Damascus. 1983

### Employment History:

1. President of Yarmouk Private University. 2024 – up to date
2. Member of the Board of Trustees, Yarmouk Private University - Damascus. 2015 - up to date
3. Member of the Scientific Research and Post Graduate Studies Committee at the Ministry of Higher Education and Scientific Research. 2011 – up to date
4. Deputy Minister of Higher Education for Administrative and Financial Affairs. 2019-2021
5. Representative of the Ministry of Higher Education and Scientific Research at the Council of Damascus University 2019-2021
6. Member of the Degree Equivalency Committee in the Ministry of Higher Education and Scientific Research. 2019-2021
7. Member of the Board of Trustees, Al-Sham Private University - Damascus. 2017 - 2021
8. Member of Al-Sham Private University Board. 2015-2017  
2012- 2016

9. Vice president of Damascus University for Scientific Research and Post Graduate Studies.
10. Chairman of Scientific Research Council and Post Graduate Studies at the University of Damascus. 2012-2016
11. Board Member of the Higher Commission for Scientific Research. 2012-2016
12. Member of the School Textbook Preparation Committee in the Ministry of Education. 2012-2016
13. Chairman of the Authoring and Publishing Commission in Damascus University. 2012-2016
14. Dean of the Faculty of Mechanical and Electrical Engineering. 2011-2012
15. Head of Professional Work Unit, "The Unit of Machinery and Equipment Heat Engineering" at the Faculty of Mechanical and Electrical Engineering in Damascus University. 2005- up to date
16. Head of the Scientific Research Group, "Thermal Energy Engineering" at the Faculty of Mechanical and Electrical Engineering in Damascus University. 2005-up to date
17. Member of the Department Council of Mechanical Power Engineering for several years.
18. Professor at the Faculty of Mechanical and Electrical Engineering in Damascus University. 2004-up to date
19. Assistant Professor at the Faculty of Mechanical and Electrical Engineering in Damascus University. 1999-2004
20. Lecturer at the Faculty of Mechanical and Electrical Engineering in Damascus University. 1992-1999

21. Teaching Assistant at the Faculty of Mechanical and Electrical Engineering in Damascus University. 1984-1986
22. Mechanical Engineer in the Housing Foundation – Damascus. 1983-1984

### University Courses Taught.

1. Fluid Mechanics for second year students of Civil Engineering in Yarmouk Private University.
2. Hydraulic Engineering for third year students of Civil Engineering in Yarmouk Private University.
3. Thermal Machines 1 (Steam Turbines) for fourth year students of General Mechanics in Damascus University.
4. Thermal Machines 2 (Gas Turbines) for fifth year students of General Mechanics in Damascus University.
5. Thermodynamics for third year students of General Mechanics in Damascus University.
6. Power Stations for fifth year students of General Mechanics in Damascus University.
7. Scientific Research Methodology for first year master's students of various engineering specialities (General Mechanics, Design and Production, Energy, Computers and Automation, Communication, Medical Engineering).

### University Books Authored.

1. Thermal machines book (1) for fourth year students of General Mechanics. (Contains 479 pages ).
2. Thermal machines Book (2) for fifth year students of General Mechanics. (Contains 468 pages).

### Published Research and other Scientific Works.

1. Published a research titled the "Use of Evaporative Cooling for Gas Turbines in order to raise the Thermal Efficiency of Combined Power Plant" in Homs University Journal -volume-23, issue-8. 2001
2. Participated in "the Energy Review Course" - Planning and Energy Conservation Project - Ministry of Electricity -research titled "Thermal Insulation and Energy Conservation." 2003
3. Participated in the thirty fourth week of science placed in Damascus University - research titled "Raising the Thermal Efficiency of Thermal Turbine Machines". 1994
4. Published a research titled "Gas Turbine Operating at High Temperatures and Ways to increase the Heat Transfer in Refrigerated Blades" in Engineering Sciences Journal in Ministry of Higher Education Issue number 21. 2006
5. Published a research titled "The Study of the Cooling Effect on the Gas Turbine Blades Operating at High Temperatures" in Engineering Sciences Journal in Ministry of Higher Education Issue number 20. 2004

6. Supervised many graduation projects in different topics for the fourth and fifth year students of mechanical forces. 1992–up to date
7. Supervised many graduate diplomas in the Department of General mechanics.
8. Permanent participation in Graduation Projects Evaluation Committees for the fourth and fifth year students and post graduate students (diploma).
9. Reviewed many scientific articles in Peer-reviewed journals.
10. Evaluated the scientific output of several doctoral thesis.
11. Evaluated the scientific output of many faculty members for the promotion to the rank of assistant professor and professor.
12. Chairman of the Audit Committee for the Draft University Organization Law at Damascus University. 2005
13. Chairman of the Audit Committee for Professional Practice and Scientific Research at Damascus University. 2010
14. Participated in the symposium held at the Higher Institute of Business Administration (HIBA) about scientific research and linking the university with the community under the auspices of the Minister of Higher Education and the participation of several ministers and scientific research centers and the private sector in Syria. 2008
15. Study mission to France to assess the situation of teaching assistants at French universities and ways to 20–30/6/2009

improve their situation and raise the academic study to responsible authorities.

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|---|----------------|
| 16. Published an article in the Journal of Damascus University titled "Damascus University and the Prospects for the Future."   | October - 2009 |
| 17. Participated in the first French Syrian Conference for Renewable Energies in October 2010.  | October - 2010 |
| 18. Participated in Biomass Energy Symposium at the Faculty of Mechanical and Electrical Engineering, Damascus University.  | 2011           |
| 19. Participated in a workshop titled "Linking Research Activities at the University of Damascus to the Needs and Aspirations of the Community" - a paper titled "Governance of Scientific Research at Damascus University" | 2013           |
| 20. Participated in Workshops of the national policy for science, technology and innovation as a member of the Higher Follow-up Committee in the following sectors:   |                |
| • Workshop of Local and Regional Development Sector and the development proposals.  | 29/1/2014      |
| • Workshop of population sector and the development proposals.  | 12/2/2014      |
| • Workshop of construction sector and the development proposals.  | 19/2/2014      |
| • Workshop of social and cultural developmental sector and the development proposals  | 5/3/2014       |
| • Workshop of tourism sector and the development proposals.   | 30/4/2014      |

- Workshop of transport sector and the development proposals. 9/4/2014
- 21. Organized and Participated in the Week of Scientific Publications, which was held at Damascus University. 31/3/2014- 7/4/2014
- 22. Supervised a master's Thesis titled "The Effect of Changing the External Temperature on Gas Turbine Performance in Deir Ali Thermal Power Plant. 2017-2019
- 23. Supervised the doctoral thesis titled "Designing The Solar Thermal Storage Tank and the Use of Thermal Storage in Hybrid Electrosolar power plants". 8/10/2011
- 24. Participated in a research titled "Computational Modeling of the Hybrid Electrosolar Power Plant System and Site Selection of the Optimal Location in Syria" Damascus University Journal of Engineering Sciences . 2/6/2014
- 25. Participated in a research titled "Development of a Full Thermal Storage System in a Hybrid Electrosolar Power Plant" Damascus University Journal of Engineering Sciences. 26/4/2016
- 26. Participated in a research titled "Experimental Studies for the Thermal Storage Tank used in Electro-solar Hybrid Station" (IJSER-ISSN:2229-1588) Vol-7, Issue-7 July/2016
- 27. Participated in a research titled "Impact of the Nozzle Angles on Counterflow Diffusion Flame to Strain Rate Variations" (IJSER-ISSN:2349-6495(p)/2456 1908(o)) October/2016

Vol-3, Issue-10.

28. Participated in a research titled "Numerical & Experimental Investigation of Solidification Thickness around Cylindrical Surfaces for HVAC Cold Storage Systems" (IJSER-ISSN:2349-6495(p)/2456-1908(o)) April/2018  
Vol-5, Issue-4.
29. Participated in a Research titled "Determination of the Geometric Dimensions of a Latent Heat Thermal Storage Tank to Cover Peak Electrical Load" – Damascus University Journal of Engineering Sciences – Vol-37, Issue-1 , 2021, pp. 88-99. 2021
30. Supervised a master's thesis titled "Improving the Efficiency of Gas Turbine Plant by Cooling the Air inside the Compressor Using the Cooling Absorbance Circuit ". 2024- up to date

### Syndicate Work.

1. Member in the Syrian Engineering Syndicate - 1983 - up to date  
Damascus branch.
2. Consultant Engineer in the Syrian Engineering Syndicate - Damascus Branch. 2007- up to date.

## Courses followed.

- ❖ Course in the field of energy efficiency and reducing pollution in the Arab Republic of Egypt / Alexandria -march /2002 /.
- ❖ A researcher in the planning and energy conservation project in Syria since 2000 and until 2004, and regarding this project, energy screening has been made with the necessary measurements in the facilities listed below within the energy services team:
  1. General Company for industrial nylon threads and socks - Damascus.
  2. General Company for the manufacture of carpets - Damascus.
  3. General Company for tanning - Damascus.
  4. General Company for Electronic Industries - Syronics.
  5. Batteries factory - Alkadam – Damascus
  6. Aluminum extrusion factories - Madar-Damascus.
  7. Hafiz refrigerators factory - Damascus.
  8. Sugar factory in Homs city.
- ❖ Course on strategic planning skills in the Ministry of Higher Education March 2012.

Professional engineering expertise

- 1- The study of the mechanical work (heating and conditioning) for many projects in many Syrian cities.
- 2- The review of the mechanical work for many projects in many Syrian cities.



**Prof. Dr. Jamal Al Abbas**