

Curriculum Vitae

Dr. Basima Salman Khalaf

Mustansiriyah University – College of Engineering

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PERSONAL SUMMARY:

A member of the Mechanical Engineering Department staff since 1994 until now. currently teaching the computer programming course. My research interests are in the field of renewable energy.

EDUCATION:

- Ph.D. into mechanical engineering/power(thermofluids)/ Baghdad University/ Engineering College/2013.
Dissertation Title: Experimental and Theoretical study of natural draft wet cooling tower performance.
- M.Sc. into mechanical engineering/ Al-mustansiriyah University/ Engineering College/2000.
Thesis Title: modeling of transient two phase flow.
- B.Sc. into mechanical engineering/ into mechanical engineering/power/ University of Technology/1993

WORK PLACE

- Mustansiriyah University – College of Engineering-mechanical department

ACADEMIC HONORS AND AWARDS:

- Letters of thanks and appreciation from
 - The Iraqi Prime Minister: (1)
 - The Minister of Higher Education and Scientific Research: (9)
 - President of Mustansiriyah University: (12)
 - Dean of the College of Engineering: more than (45)

ACADEMIC /TEACHING EXPERIENCE:

- Assistant Engineering, Mechanical Engineering Department, College of Engineering - Mustansiriyah University , 23/11/1994 -2000.
- Assistant lecturer, Mechanical Engineering Department, College of Engineering - Mustansiriyah University , 2000-2013.
- lecturer, Mechanical Engineering Department, College of Engineering - Mustansiriyah University 2013
- Assistant professor , Mechanical Engineering Department, College of Engineering - Mustansiriyah University 2020.

COURSES TAUGHT:

Undergraduate	Graduate
<ul style="list-style-type: none">• renewable energy• nano-technology• computer programming I	—

- | | |
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| <ul style="list-style-type: none"> • computer programming II • Engineering Drawing I • Mechanical Drawing II | |
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PROFESSIONAL AFFILIATIONS:

Member of the Iraqi Engineers Syndicate.

PUBLICATIONS:

- 1-*Investigate the Impact of Dimple Size and Distribution on the Hydrothermal Performance of Dimpled Heat Exchanger Tubes*(2024)
- 2-*Statistical analysis of the vacuum solar collector using the analysis of variance method*
Al-Qadisiyah Journal for Engineering Sciences, 2023, 16(4), pp. 273–278
- 3-*Thermal effects on dynamic response of GOP-Reinforced beams under blast load*
*Advances in Concrete Construction**This link is disabled., 2021, 12(3), pp. 167–174*
- 4- *Investigating dynamic response of nonlocal functionally graded porous piezoelectric plates in thermal environment*
*Steel and Composite Structures**This link is disabled., 2021, 40(2), pp. 243–254*
- 5-*Experimental and numerical investigation of heat transfer enhancement using circular perforated fins*
*IOP Conference Series: Materials Science and Engineering**This link is disabled., 2020, 870(1), 012168*
- 6-*Heat Transfer Inside Building-Cladding Solar Collector*
Journal Of Engineering And Sustainable Development *This Link Is Disabled., 2020, 24(4), pp. 26–34*
- 7-*Analyzing nonlinear mechanical-thermal buckling of imperfect micro-scale beam made of graded graphene reinforced composites*
*Advances In Materials Research (South Korea)**This link is disabled., 2019, 8(3), pp. 219–235*
- 8-*Case Studies in Thermal Engineering* *This link is disabled., 2019, 13, 100388*
- 9-*Analysis of static and dynamic characteristics of strain gradient shell structures made of porous nano-crystalline materials*
*Advances in Materials Research (South Korea)**This link is disabled., 2019, 8(3), pp. 179–196*
- 10-*Numerical and Experimental Investigation of Heat Transfer Enhancement in Double Pipe Heat Exchanger*
*IOP Conference Series: Materials Science and Engineering**This link is disabled., 2018, 454(1), 012066*
- 11-*Investigation of natural draft cooling tower performance using neural network*
Springer Proceedings in Physics *This link is disabled., 2014, 155, pp. 315–327*
- 12-*Investigation Of Natural Draft Cooling Tower Performance Using Neural Network*
International Congress on Energy Efficiency and Energy Related Materia
- 13- *Review of heat transfer behavior of building materials*2019
- 14-*Review on heat transfer performance in porous media*2019

15-Numerical Solution of Distributions For A Fluid Velocity, Pressure And Temperature Along Flow Path For A Non-Conventional Machining Method

Journal of Engineering and Sustainable Development 22 (5), 159-169

16-Experimental Study to Enhance the Performance of Heat Transfer in Fire Tube

Journal of Recent Trends in Mechanics 2 (2), 1-11 International Journal of Energy Science and Engineering 3 (2), 11-28

18-Experimental and Theoretical Investigation of Thermal Conductivity for Metal Foam

Journal of Thermal Energy Systems 2 (1), 19-26

19-Enhancement of Heat Transfer Coefficient Using Porous Materials

20-Comparative Study on Thermal Properties of 3D Printed and Conventional Fins

20-Study of Melting and Solidification of the Phase Change Materials

Journal of Advancement In Machines 4 (2)

PROFESSIONAL DEVELOPMENT

- **Certifications:**
 - English Language Course
 - Methods of Teaching
 - Computer Course
 - Quality Management Courses for Laboratories

- **Academic visitor at cardiff university /collage of engineering in united kingdom from 21/3/2011 until 28/9/2011**


الدكتور السائد الخياط
عميد كلية الهندسة
جامعة البصرة


الأستاذ
أحسان صباح الأمين
رئيس قسم الهندسة الميكانيكية