


Curriculum Vitae

Family name/ Surname	Georgees						
First name	Banipal						
Middle name	Nanno						
Last Name	Yaqob						
E-mail	Banipal.yaqob@epu.edu.iq						
Date of Birth	5/1/1976						
Place of birth	Erbil-Iraq						
Academic title	Lecturer						
Address	Ankawa, Erbil, Iraqi Kurdistan Region						
Office Address	Mechanical and Energy Engineering Department / Erbil Technical Engineering College / Erbil Polytechnic University / Erbil-Kurdistan Region-Iraq						
Mobile	(00964) 750 745 6638						
Preparatory graduated from	Abdul Al-Malek Secondary School	governorate	Kirkuk	year	1992-1993		
Date of first assignment in university	1993-1994						
Academic attainments	Certificate	University	College	Department	Graduation year	Country	
	B. Sc.	Tekrit	Engineering	Mechanical Engineering	1996-1997	Iraq/Tekrit	
	M. Sc.	Technology	Engineering	Mechanical Engineering	2000	Iraq/Baghdad	
	Ph. D.	Al-Mustansiriyah	Engineering	Mechanical Engineering	2007	Iraq/Baghdad	
Academic title attained	Academic title					Date of attainment	
	Assistant Lecturer					9/8/2004	
	Lecturer					15/2/2007	
	Assistant Professor					31/10/2022	
General specialization	Mechanical Engineering – Thermal Power						
Specific specialization	Two-Phase Flow						
Ph.D. Thesis Title	A comparative study between the capacitor, auto-transformer, and transformer techniques for void fraction measurements in two-phase flow.						
Languages:							
English	High level (writing/speaking/reading)						
Kurdish	Fluent level (writing/speaking/reading)						
Arabic	Fluent level (writing/speaking/reading)						
Turkish	Medium level (speaking)						
Assyrian	Native tongue						
Assignment and posts:							
1. From 4/2000 to 8/2000 / military service period, working as maintenance engineering on military vehicles/ Electrical Instrument Engineering/Kirkuk.							
2. I worked in Kirkuk Technical College as a lecturer for the following subjects;							

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- A. *Fluid Mechanics for 2nd stage in Refrigeration and Air-Conditioning Engineering Department (2000-2007) and in Fuel and Energy Engineering Department, (2000-2001).*
 - B. *Power Plants for 4th stage in Refrigeration and Air-Conditioning Engineering Department, (2001-2007).*
 - C. *Supervising on Summer Training in North Oil Company and Power Plant-DIBIS, (2003-2007).*
 - D. *Teaching a course of Power Plant (Gas and Steam Power Plant), theoretically and experimentally, for the employer of the General Directorate of Electrical Production-Sallahadin-Brach-Kirkuk, for one month, (2006 and 2007).*
3. *Now I am an instructor in Erbil Technical Engineering College/Mechanical and Energy Engineering Department for the following subjects:*
- a. *Fluid Mechanics for 2nd stage (2008-to present).*
 - b. *Computer application (MATLAB & FORTRAN) for 3rd stage (2009-2012).*
 - c. *Power Plant for 4th stage (2010-to present).*
 - d. *Fluid Mechanics for 2nd stage (2010-2011 and 2012-2013) for Civil Eng. Department.*
 - e. *Advanced Fluid Mechanics for M.Sc. students (2014-2015, 2017-2018, 2020-2021, 2023-2024).*
 - f. *Computational Fluid Dynamic (CFD) for Ph.D. students (2020-2021, 2023-2024).*
4. *Head of Refrigeration and Air-Conditioning Engineering Department / Erbil Technical Engineering College from (1/9/2012) to (1/10/2015)*

Committees participated in the college and university:

- 1- *Examination committee member (from 2005 to 2006) / Ref. & Air-Cond. Eng. Dept. / Kirkuk Technical College/Foundation of Technical Education.*
- 2- *Scientific committee member (from 2007 to 2020, 2021-2022, 2023-to present) / Mechanical & Energy Eng. Dept. / Erbil Technical Engineering College/ Erbil Polytechnic University.*
- 3- *Head of quality assurance committee (from 2010 to 2012) / Mechanical & Energy Eng. Dept. / Erbil Engineering College/ Erbil Polytechnic University.*
- 4- *Examination committee member (from 2011 to 2018) & (2020 to present) / Mechanical & Energy Eng. Dept. / Erbil Technical Engineering College/ Erbil Polytechnic University.*
- 5- *Head of examination committee (from 2012 to 2017) / Mechanical & Energy Eng. Dept. / Erbil Technical Engineering College/ Erbil Polytechnic University.*
- 6- *Postgraduate committee member (from 2015 to 2020, 2021-2022, 2023-to present) / Mechanical & Energy Eng. Dept. / Erbil Technical Engineering College/ Erbil Polytechnic University.*
- 7- *Inference research committee member in Erbil Polytechnic University (from 2016 to 2020).*
- 8- *Head of Fourth Grade Graduation Projects committee in Erbil Polytechnic University/Mechanical & Energy Eng. Department (from 2020 to present).*

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Published Researches :

- 1- Abdulla A. Kendoush, Ghanim K. Abdul-Sada, and **Banipal N. Yaqob**, (A Nonintrusive Auto-Transformer Technique for Measuring Phase Volume Ration in Oil-Water Two-Phase Stratified Flow). *Journal of Petroleum Science and Engineering*, 54 (2006) 25-33.
- 2- **Banipal N. Yaqob** and Ehsan F. Abbas, (Effect of Crude Oil-Water Two-Phase Flow on Pump Performance). *Eng. & Tech. Journal*, 27 (9) (2009) 1766-1774.
- 3- **Banipal N. Yaqob** and Handreen A. Saber, (Investigation of the Overall Efficiency of Steam Jet Ejector over a Range of Working Conditions). *Zanco Journal of Pure Applied and Science*, 29 (1) (2017) 120-126.
- 4- Reenas Oraha Cannon, Nazar Faraj Antwan, and **Banipal Nanno Yaqob**, (Investigation of Solar Water Heating System in Erbil City: An Experimental and Numerical Study). *International Journal of Renewable Energy and Research*, 12 (3) (2022): 1225-1233.
- 5- Bahzad Darwesh Darwesh, Idres Azzat Hamakhan, and **Banipal Nanno Yaqob**, (Thermal Enhancement of Solar Energy Storage Using Phase Change Materials), *International Journal of Heat and Technology*, 40 (3) (2022): 758-766.
- 6- Bashir E. Kareem, Ahmed M. Adham, and **Banipal N. Yaqob**, (Performance Enhancement of a Ventilation System in Hot and Dry Climate Using Air-PCM Heat Exchanger). *International Journal of Heat and Technology*, 40 (3) (2022): 773-780.
- 7- Zhyan F. Hassan, **Banipal N. Yaqob**, & Ranj S. Abdullah, (A Study of Greenhouse Thermal Management by Flat Plate Solar Collector Using Al_2O_3 -Water Nanofluid). *International Journal of Energy Production and Management*, 8 (2) (2023): 71-79.
- 8- Bashir E. Kareem, Ahmed M. Adham, and **Banipal N. Yaqob**, (Design and Optimization of Air to PCM Heat Exchanger Using CFD). *Arabian Journal for Science and Engineering*, Published online: 13 October 2022.
- 9- **Banipal N. Yaqob** (Gas-Liquid Two-Phase Flow Pressure Drop in Flattened Tubes: An Experimental and Numerical Study), *Journal of Thermal Engineering*, Accepted paper, 2022.
- 10- Aveen T. Mohsin and **Banipal N. Yaqob**, (Experimental Investigation on Improving Lifetime of Peripheral Pump Impeller under Cavitation Using Different Techniques). *International Journal of Heat and Technology*, 40 (5) (2022): 1258-1264.
- 11- Bashir E. Kareem, Ahmed M. Adham, and **Banipal N. Yaqob**, (Experimental analysis of air-multiple PCM heat exchanger in evaporative cooling systems for supply air temperature stabilization). *Journal of Building Engineering*, 82, 1 April 2024, 108269.
- 12- Bashir E. Kareem, Ahmed M. Adham, and **Banipal N. Yaqob**, (Experimental and numerical investigation of a real-scale air to multiple PCM heat exchanger). *Journal of Building Engineering*, Volume 89, 15 July 2024, 109323.

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Conferences:

- 1- **Ghanim K. Abdul-Sada and Banipal N. Yaqob**, (*Water turbidity effect upon performance of solar pond*), Sharjah Solar Energy Conference, Sharjah, UAE, 19-22 February 2001: incorporating the 7th Arab International Solar Energy Conference and Regional World Renewable Energy Congress.
- 2- **Abdulla A. Kendoush and Banipal N. Yaqob**, (*A Comparative Study between the Methods of Measuring Void Fraction in Air-Water Two-Phase Flow*), ASME Fluids Engineering Division Summer Conference, August 10-14, 2008, Jacksonville, Florida, USA.
- 3- **Banipal N. Yaqob and Iyd E. Maree** (*Effect of Clarity of Water upon Performance of Solar Pond in Iraq*). 1st Scientific Research Conference of Technical Education, 20-21 October 2010, Duhok, Kurdistan Region, Iraq.
- 4- **Banipal N. Yaqob** (*Experimentally Investigation the Effect of Oil-Water Phase Inversion on Pump Performance*) 7th International Conference on Computational Heat and Mass Transfer, July 18-22, 2011, Istanbul, Turkey.
- 5- **Banipal N. Yaqob** (*Experimental Investigation of Two-Phase Flow Pressure Drop In Flattened Tube*), 9th European Fluid Mechanics Conference, 9-12 September 2012, Rome, Italia.

Postgraduate Supervision:

1. *Experimental and theoretical study of solar water heating system in Erbil city. Reenas (M. Sc. Thesis) 2016-2017.*
2. *Thermal Enhancement of Solar Energy Storage Using Phase Change Materials. Bahzad (M. Sc. Thesis) 2021-2022.*
3. *A Comprehensive Analysis of Cavitation Effect on a Centrifugal Pump Performance and Impeller Lifetime Under Different Operation Conditions. Aveen (M. Sc. Thesis) 2021-2022.*
4. *Thermal Performance Analysis of a Flat Plate Solar Collector for Greenhouse Heating System Using Nano-Fluid. Zhyan (M. Sc. Thesis) 2021-2022.*
5. *Investigation of Using PCMs in Residential Building for Improving Indoor Thermal Comfort in Hot and Dry Climate. Bashir (Ph.D. Student) 2021-2023.*
6. *Experimental and Numerical Study on Thermal Performance and Thermocline Structure Optimization of Thermal Storage Tank with PCM Included. Ahmed (International Ph.D. student), 2023-*

Evaluation committee of M.Sc. or Ph.D. Theses :

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1. Sirwan Farouq Omer “Wind Turbine Driven Heat Pump System”, M.Sc. Thesis, 16-9-2020.
2. Sawan Hawro Khaleel “Thermodynamic Optimization of Solar Water Heating System in Erbil City”, M.Sc. Thesis, 16-6-2022.
3. Saman Jalal Saleh “Enhancement of Automobile Cabin Using An Auxillary Solar Assisted Lithium-Bromide Absorption Air Cooling System”, M.Sc. Thesis, 16-4-2023.
4. Darawan Bazyan Dhahir “Performance Enhancement of a Household Refrigeration System Using Phase Change Materials (PCMs) and Nanoparticles”, M.Sc. Thesis, 17-5-2023.
5. Sally Afram Polus “Performance Enhancement of Photovoltaic (PV) Using Solar Tracking System and Cooling Panel Surface.”, Ph.D. Dissertation, 19-10-2023.
6. Shaswar Omer Osman “Experimental and Numerical Analysis of the Mixed Convection Heat Transfer from Two Aligned Horizontal Heated Cylinders in a Vented Square Enclosure.” M.Sc. Thesis, 11-01-2024.
7. Kawa AbdulAlkhany Abdullah “Study of Thermal Plume of VRF Air Conditioners for Cooling Season in Semi-Closed Spaces in High-Rise Buildings.” Ph.D. Desertation, April 2, 2024. (Scintific evaluation).

Computer and Software Skills:

- 1- Proficiency with Microsoft software (Word, Excel, Power point)
- 2- Proficiency with Auto CAD, Matlab, and FORTRAN language.

Memberships:

- 1- Member of Iraqi Engineers Union, ID No. 82844
- 2- Member of Kurdistan Engineers Union, ID No. 6479
- 3- Member of Kurdistan Teachers Union, ID No. 11041

Interests:

1. Sport in general (football, basketball, tennis ... est.)
2. Reading scientific papers and spiritual books.