



Assistant Professor Dr. Osama Hassin

Director of Entrepreneurship and Innovation Center at Libyan Academy

Director of Planning and Development Department at Libyan Academy

Lecturer at Mechanical Engineering and Energies Department

School of Engineering and Applied Science

LIBYAN ACADEMY FOR POSTGRADUATE STUDIES

Janzour, Tripoli, LIBYA

Tripoli, LY, PO Box 79031



Personal Details

	Libyan Nationality		https://mee.ase.academy.edu.ly/a/r/lecturers/282
	21/11/1974		https://scholar.google.com/citations?user=Nu6QnXkAAAAJ&hl=en&authuser=1
	Janzour, Tripoli, Libya		osama.hassin@academy.edu.ly
	00218924909304		
	Male / married		



Education

PhD 2013-2017 University of HUDDERSFIELD	Doctor of Philosophy from computing and engineering school at University of Huddersfield, UK. Topic “Condition Monitoring of Journal Bearings for Predictive Maintenance Management based on High Frequency Vibration Analysis”. http://eprints.hud.ac.uk/id/eprint/34161/1/FINAL%20THESIS%20-%20Hassin.pdf https://www.youtube.com/watch?v=HPQiN8au2oQ&t=27s
Master 2005-2007 UNIVERSITI KEBANGSAAN MALAYSIA The National University of Malaysia	Master degree from mechanical and material department at University Kebangsaan Malaysia (UKM), Malaysia. Topic “Simulation of Crack Paths in Linear Elastic Fracture Models”. Excellent Awards 2006 on 13 September, from University Kebangsaan Malaysia
Bsc 1995-2000	Bachelor degree from mechanical and industrial department at Tripoli (AlFateh) University, Libya. Topic “Planning and



Designing the Maintenance Program of Agriculture Tracks Factory”. Good.



Professional Experience

2021-now. Lecturer at Libyan Academy,

- Director of entrepreneurship and innovation centre at Libyan Academy.
- Staff member in Mechanical and Energies department at Libyan Academy.
- Director of technology and innovation department at Libyan Academy.
- Director of strategy planning and development department at Libyan Academy.

2008-2021. Lecturer in mechanical and industrial department at Gharyan (Aljabal Algarbi) University.

- Teach several subjects such as material property, workshop techniques, production I&II, numerical analysis, industrial management and maintenance planning.
- Tutor computing programs such as excel, matlab and management software.
- Project supervisor of final year students.



Personal Statement

Self-motivated, enthusiastic and committed industry, mechanical, material and industrial experience engineer in education field, project supervision, consultancy, evaluation, and development condition monitoring.

I have been over four years as engineering researcher at Huddersfield University to develop on-line and off-line condition-based-maintenance at Centre for Efficiency and Performance Engineering. I have had a full understanding of fault diagnostics of different mechanical parts based on vibration, acoustic and acoustic emission signal analysis. Furthermore, my experience in research, knowledge in mechanical and material, signal processing engineering, condition monitoring, fault diagnostic and maintenance supervision thus I'd like to share my enthusiasm and training with the users in this foundation.

Addition of research experience, I have more ten years of teaching experience in mechanical and industrial department at Gharyan University and Alzwia technical high institute in Libya. And I have held full time lectureship position and reviewed, lectured and tutored a wide range of courses.



Professional Achievements

- Assistant Professor in Mechanical Engineering field.

- TOT from The American Canadian Board certificate ID 2491AEL.
- A committee head of preparing a proposal for postgraduate studies in entrepreneurship at technology and innovation department in the Libyan Academy.
- Obtain a certificate of the SMB Entrepreneurship bootcamp training of trainers program, 2022.
- Obtain professional project management diploma from Nottingham Global Academy, 2022, No 1870.
- Director of Entrepreneurship and Innovation Centre at the Libyan Academy.
- Coordinator of Research Club at Entrepreneurship and Innovation Centre.
- Participation as referee in the first pioneer competition that was held at the Institute of Civilization Messengers - Libya 2022
- A staff member of developing educational curricula and setting strategic plans at development department.
- A committee member of setting up new technical master's programs.
- Participate with project committee of Utilities and Housing Ministry to evaluate infrastructure of Janzour municipality.
- Project management certificate from course at University of Huddersfield, 2015.
- Teaching Assistant Preparation Programme (TAPP) certificate from University of Huddersfield, 2016.
- Methods of evaluating projects certificate from course at University of Huddersfield, 2016.
- Experience in learning and excelling at new technologies as needed.
- Deliver lecture of condition monitoring technique to increasing production quality and reducing cost, risk and maintenance strategy for GECOL.
- Comprehensive study of the correlation between TVETs outputs, workshops and market requirements in the automotive maintenance sector in Libya.
- Comprehensive study of Market Demand and Skills Needs Study in the Field of Installation, Maintenance and Repair of Household Appliances and Office Equipment in Libya.
- Deliver lectures such as machinery fault diagnosis and signal processing and Matlab courses at Libyan Academy.
- Obtain a pass certificate of basics of ANSYS Spaceclaim – Fluent – Mechanical from HRDI, Libyan Academy 2022.
- Excellent Awards 2006 on 13 September, University Kebangsaan Malaysia.



Publication Papers

1. Different Signal Processing Techniques for Predicting the Condition of Journal Bearings, Poster university of Huddersfield, 2013.
2. Characterization of Acoustic Emissions from Mechanical Seals for Fault Detection, BINDT Manchester UK, 2014.
3. Journal bearing lubrication monitoring based on spectrum cluster analysis of vibration signals, COMADEM Buenos Aires, Argentina, 2015.

4. Monitoring Oil Levels of Journal Bearings based on the Analysis of Vibration Signals, COMADEM Xi'an, Shaanxi, China, 2016.
5. Journal Bearing Condition Monitoring based on the Modulation Signal Bispectrum Analysis of Vibrations, ICPT Chongqing, P.R. China, 2016.
6. Predicting Oil Film performance in a Journal Bearing based on Modulation Signal Bispectrum analysis of Vibration Signals, International journal of COMADEM Vol 20, No 3 (2017) p19-24.
7. Detection and Diagnosis of Reciprocating Compressor Faults Based on Modulation Signal Bispectrum Analysis of Vibration, COMADEM Preston, UK, 2017.
8. Modelling the Vibration Response of a Journal Bearing for Condition Monitoring, COMADEM North West University, South Africa, 2018
9. Monitoring Mis-Operating Conditions of Journal Bearings based on Modulation Signal Bispectrum Analysis of Vibration Signals. CEST Elmergib University, Libya, 2018.
10. An Investigation into Vibration Response for Condition Monitoring of Reciprocating Compressor based on Modulation Signal Spectrum Analysis, International Journal of COMADEM Vol 21, No 3 (2018).
11. Resonance Identification of a Journal Bearing based on Frequency Response Function and Numerical Analysis. ICTS (MI5032) International Conference on Technology, 2019. Tripoli, Libya.
12. Vibration Monitoring of the Gradual Worn in Journal Bearings, Advances in Asset Management and Condition Monitoring. Springer, Cham, 2020. 597-607.
13. An Experimental Study of Acoustic Emission Generated by Journal Bearing, First Libyan International Conference On Engineering Science and Applications 13-15 March 2023, Libyan academy, Libya.



Examiner

Appointed as examiner for the following MSc Researches:

1. Mohamed Albakai, Discontinuity Stress Analysis of Metallic Pressure Vessel Using Finite Element Method, Libyan Academy for Postgraduate Studies, Tripoli, Libya, 30/3/2022.
2. Mohamed Esmael Aldaeki, Evaluating The Performance of Engineering Faculty, University of Tripoli, Using The Competitive Benchmarking Technique. The university of Tripoli for Postgraduate Studies, Tripoli, Libya, 25/8/2022.
3. Mohamed Masaud Bioud, Study the Effect of the Roughness of the Terrain and the Roughness Length on the Estimated and Available Annual Wind Energy In Msallata City, Libyan Academy for Postgraduate Studies, Tripoli, Libya, 10/7/2023.
4. Ashour Melad Ashour, Feasibility Analysis of Linear Fresnel Solar Thermal Power Plant in Libya, Libyan Academy for Postgraduate Studies, Tripoli, Libya, 12/2/2023.



Computing skills

Able of developing and writing computing programmes in Word, excel, power point, Solidworks, Fortran, Matlab, AutoCAD, Project Professional Management and experience in learning and excelling at new technologies as needed.



Personal Capabilities

- Motivate personnel to high performance standards and excellence
- Active person in some civil society organizations and volunteer work
- Commitment to leadership through ability to communicate effectively with donors and entrepreneurs
- Streamlining policies and implementing processes to accomplish desired goals
- Team management inspiring trust, fostering collaboration and boosting entrepreneur morale to improve creativity and productivity rates.
- Have experience in learning and excelling at new technologies and computing program as needed.



Personal Languages

Arabic:



English:



Thanks for reading