



# CURRICULUM VITAE

## **PERSONAL INFORMATION**

Name: Nabil Wanas Abdel Aziz Musa.  
Sex: Male.  
Date of birth: 10 July 1970.  
Nationality: Jordanian.  
Marital Status: married.  
E-Mail address: [nmusa84@philadelphia.edu.jo](mailto:nmusa84@philadelphia.edu.jo)  
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## **EDUCATIONAL BACKGROUND**

\*Degree Awarded: Ph.D., Engineering Science.  
Specialty: Applied Mechanics.  
Particular Specialty: Building Mechanics.  
Ph.D. dissertation: Critical states of elongated beam and shell Structures under action of moving loads .  
University Name: National Transport University.  
University country: Kyiv-Ukraine.  
Graduation date: 10 May 2007.

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\*Degree Awarded: Master Degree., Mechanical Engineering.  
Specialty: Aircraft and Aero engines Maintenance.  
University Name: The Kyiv International University of Civil Aviation.  
University country: Kyiv-Ukraine.  
Graduation date: June 1995.

## **Communtiy services**

*A member of mechanical engineering consultancy committee at Jordan engineers association.*

## **Experiences**

- 1- Sep. 2003 – Feb. 2007, Lecturer at Mechanical Engineering Department – National Transport University.
- 2- 01 Feb. - 01 June 2008 , Assistant Prof. at Wadi Elseer Engineering College –UN, Jordan.
- 3- 29 March 2009 -16 Sep.2010 Assistant Prof. in Mechanical Department at King Khalid University, Abha-Saudi Arabia.
- 4- Oct.2011- Feb. 2019due date Assistant Prof. in mechanical Engineering department at Philadelphia University, Jordan.
- 5- Feb. 2019 due date Associate Prof. in mechanical Engineering department at Philadelphia University, Jordan.

## **Subject Taught**

- 1- Engineering Mechanics – Statics
- 2- Engineering Mechanics – Dynamics
- 3- Applied Physics for Engineers
- 4- Solid Mechanics
- 5- Engineering Instrumentation and Measurements
- 6- Engineering Drawing (1)

7- Mechanical Engineering Design 1 ,2

8- Engineering Analysis (1) – Deferential Equations

### **PUBLICATIONS**

- 1- Musa Nabil. Propagation of harmonic waves in elastic based Beam. Bulletin of National Transport University, 2004, No. 9, pp 417-420.
- 2- Gulyaev V.I., Nabil Musa. Resonance interaction of beam and Elastic foundation at the movement of periodic system of concentrated loads. – J. Appl. Mech., 2005, No.5, pp116-123.
- 3- Gajdachuk V.V., Nabil Musa. Dynamics of cylindrical shell Under the action of moving inner stepwise pressure field. – Strength of materials and theory of constructions,2005, No. 74, pp 104-114.
- 4- Musa Nabil. Critical state of a cylindrical shell under the action of moving load. - Proc. Of the 62 scientific conference of a teaching staff. Kyiv; NTU, 2006, P. 261.
- 6- Musa Nabil. Critical States of cylindrical shell under the action Of moving exponentially decaying loads.- Bulletin of National Transport University, 2006, No. 11, 180-183.
- 7- Gulyaev V.I, Lugovoyy P.Z, Zaets' Yu.O, Nabil M. Evolution of the fronts of quasi-compressional and quasi-shear discontinuous waves in inhomogeneous transversely isotropic elastic media. International Applied Mechanics Journal, Vol. 47, No. 1, June, 2011 (Russian Original Vol. 47, No. 1, January, 2011)

- 8- Nabil W. Musa, V. I. Gulyayev, G. M. Ivanchenko, Yu. A. Zaets, Hasan Aldabbas. Transformation of seismic discontinuous waves by hyperboloid interfaces in anisotropic elastic media. International Journal of Scientific & Engineering Research, Volume 5, Issue 12, December-2014.
  
- 9- Nabil W. Musa, V.I. Gulyayev, L.V. Shevchuk , Hasan aldabbas. Whirl interaction of a drill bit with the bore-hole bottom. modern mechanical engineering, Vol.5, august 2015.
  
- 10- Hasan AL Dabbas, Nabil. W. Musa, Mohammad Goqazeh. Mechanical Characteristic of concentric and Eccentric Drilling Cutting Tool. International Journal of Applied Engineering Research, Volume 10, Number 15 (2015) pp 36099-36105.
  
- 11- Mohammad Quqazeh, Hasan .A.Aldabbas, Monzer.M. Krishan, Nabil Musa. Characteristics and analysis for mechanical instrumentation used to measure fluid viscosity. International Journal of Innovative Science and Modern Engineering (IJISME), Volume-4 Issue-3, March 2016.
  
- 12- Nabil Musa, Valery Gulyayev, Nataliya Shlyun and Hasan Aldabas. Critical Buckling of Drill Strings in Cylindrical Cavities of Inclined Bore-Holes. Journal of Mechanics Engineering and Automation. Vol:6, Issue,1 (2016) pp 25-38.
  
- 13- Nabil Musa. The use of a genetic approach to modeling of the kinematics of cutting. World journal of Mechanics, Volume-6, Issue, 10 (2016) pp 396-405.
  
- 14- Nabil Wanas Musa. Elastic bending deformation of the drill string in channels of curve wells. Modern Mechanical Engineering, Volume-6, Issue, 12 (2016) pp.

- 15- Nabil Wanas Musa. Investigation on torsional vibration of drill string in cylindrical cavities of vertical bore-hole. International Journal of Mechanical and Production, Engineering Research and Development (IJMPERD) Vol. 8, Issue 3, Jun 2018, 1085-1096 PP.
- 16- Nabil Wanas Musa. Transformation of discontinues wave front in elastic layered media with variable density. International Journal of Mechanical Engineering and Technology (IJMET), Volume 9, Issue 7, July 2018, pp. 1120–1127 PP, Article ID: IJMET\_09\_07\_121.
- 17- Nabil Wanas Musa. The transformation of the wave front at the transversely elastic medium with variable properties. International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), Vol. 8, Issue 4, Aug 2018, 1005-1010 PP.

❖ References:

- 1- Dr. Ibrahim Abu Al-sheikh, Faculty of Mechanical Engineering, Jordan University – Jordan.  
Tel: 0795179337
- 2- Dr. Mamdoh Al-bsol, Faculty of Mechanical Engineering, Al-Balqaa university – Jordan.  
Tel: 0777490654
- 3- Dr. Hasan Al-Dabbas, Faculty of Mechanical Engineering, Philadelphia University – Jordan  
Tel: 0799247605