

**NADIRAH BINTI MOHD NASIR**  
FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY  
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POSITION : LECTURER (MATHEMATICS)



## EDUCATIONAL QUALIFICATIONS

Degree : Master of Science (Mathematics)  
Field : Applied Mathematics  
Year : 2009  
Institution : Universiti Sains Malaysia (USM)  
Dissertation : Foreign Exchange Derivatives with Application  
(using Binomial Tree)

Degree : Bachelor of Science (Honours) (Mathematics)  
Field : Mathematics  
Year : 2008  
Institution : Universiti Sains Malaysia (USM)

## HONORS AND AWARDS

1. Staff excellent award for year 2013

## ASSOCIATION MEMBERSHIPS

1. Member of Malaysian Mathematical Sciences Society (PERSAMA), Lifetime membership.

## LIST OF PUBLICATIONS

1. Rotation effects on coupled heat and mass transfer by unsteady MHD free convection flow in a porous medium past an infinite inclined plate  
Ismail, Zulhibri and Khan, Ilyas and **Nasir, Nadirah Mohd.** and Jusoh, Rahimah and Salleh, Mohd. Zuki and Shafie, Sharidan, AIP Conference Proceedings, 1605, 410-415 (2014).

2. Numerical investigation of stagnation point flow over a stretching sheet with Newtonian heating  
Mohamed, M. K. A. and **Nasir, N. M.** and Khasiie, N. S. and Jusoh, R. and Moslim, N. H. and Zaihidee, E. M. and Salleh, M. Z., AIP Conference Proceedings, 1482, 347-350 (2012).
3. Preliminary Study of Student Performance on Algebraic Concepts and Differentiation.  
**Nadirah, Mohd Nasir** and Yusof, Hashim and Siti Fatimah, Haji Ahmad Zabidi and Rahimah, Jusoh @ Awang and Ezrinda, Mohd Zaihidee (2012) , 2nd Regional Conference on Applied and Engineering Mathematics (RCAEM-II), 29-31 May 2012.
4. Correlation between the understanding of algebraic concepts and students' ability on problem solving on differentiation; case study of selected secondary schools in Kuantan, Pahang.  
Rahimah Jusoh @ Awang, Yusof Hashim, **Nadirah Mohd Nasir**, Ezrinda Mohd Zaihidee, and Siti Fatimah Haji Ahmad Zabidi. (2012), 2nd Regional Conference on Applied and Engineering Mathematics (RCAEM-II), 29-31 May 2012.

## EXIBITIONS

1. Mohd Zuki Salleh (Leader), Muhammad Khairul Anuar Mohamed, **Nadirah Mohd Nasir**, Najiyah Safwa Khasi'ie, Rahimaj Jusoh@Awang, Norhafizah Moslim, Ezrinda Mohd Zahidie, 2012. Numerical investigation of stagnation point flow over a stretching sheet with Newtonian heating, Creation,Innovation,Technology & Research Exposition (CITREX), 27-28 March 2012, Universiti Malaysia Pahang (UMP).
2. Norhayati Rosli (Leader), Yuhani Yusof, **Nadirah Mohd Nasir**, Arifah Bahar, Madihah Md Salleh, Mohd Zuki Salleh, 2013. Stochastic Modelling Of Solvent Production Byc. Acetobutylicum P262 In Fermentation Process, Creation,Innovation,Technology & Research Exposition (CITREX), 25 - 26 March 2013, Universiti Malaysia Pahang (UMP).  
Silver medal

## BOOK/MODULE

1. Ezrinda Mohd Zahidie, Farahanim Misni, Rahimah Jusoh@Awang, **Nadirah Mohd Nasir**, Mohd Rashid Ab. Hamid, Nabilah Alias  
Module Basic Mathematics for internal use, UMP Publisher, 2013.  
ISBN: 978-967-0120-93-5
2. Samsudin Abdullah, Mohd Zuki Salleh, **Nadirah Mohd Nasir**, Laila Ameera Aziz, Wan Nursyahidah Wan Yusof, Noor Aida Zuraimi Noar  
Module Ordinary Differential Equations, UMP Publisher, 2014.  
ISBN: 978-967-0691-23-7

# GRANTS

## YEAR 2013

1. Mathematical Model on Unsteady Magnetohydrodynamics (MHD) Flow of Second Grade Fluid in a Porous Medium Pas an Infinite Inclined Plate using Laplace Transform Method (RDU131405). 17/09/2013 - 16/09/2015  
Leader : **Nadirah Binti Mohd Nasir**  
Members : Zulhibri Bin Ismail @ Mustofa, Mohd Zuki Bin Salleh, Rahimah Binti Jusoh@Awang, Ilyas Khan, Sharidan Shafie
2. Persistent and Permanent Properties of First Stage DNA Splicing Languages via Yusof-Goode Approach (RDU130354). 25/06/2013 - 24/06/2015  
Leader : Yuhani Binti Yusof  
Members : Nor Haniza Bt Sarmin, Norhayati Binti Rosli, Mohd Sham Bin Mohamad, **Nadirah Binti Mohd Nasir**

## YEAR 2012

1. Stochastic Taylor Approximation of Stochastic Delay Differential Equations (RDU120362). 15/07/2012 - 14/12/2014  
Leader : Norhayati Binti Rosli  
Members : Yuhani Binti Yusof, Mohd Zuki Bin Salleh, Noraziah Binti Ahmad, **Nadirah Binti Mohd Nasir**, Rahimah Binti Jusoh@Awang

## YEAR 2011

1. Mathematical Models for the Convection Boundary Layer Flow Over a Horizontal Circular Cylinder with Newtonian Heating or Under Mixed Thermal Boundary Conditions (RDU110390). 01/10/2011 - 30/09/2013.  
Leader : Mohd Zuki Bin Salleh  
Members : Nor Hafizah Binti Moslim, Ezrinda Binti Mohd Zaihidee, Rahimah Binti Jusoh @Awang, **Nadirah Binti Mohd Nasir**, Najiyah Safwa Binti Khashi'ie

## YEAR 2010

1. The Development of Computer Aided Teaching & Learning in Additional Mathematics (CATLAM) in Malaysian Secondary Schools (RDU100340). 01/06/2010 - 01/06/2012.  
Leader : Yusof Bin Hashim  
Members : Wan Azlee Bin Hj. Wan Abdullah, **Nadirah Binti Mohd Nasir**, Rahimah Binti Jusoh@Awang, Ezrinda Binti Mohd Zaihidee, Siti Fatimah Binti Haji Ahmad Zabidi

# SUBJECT TAUGHT

## Degree

1. Numerical Methods
2. Differential Equations
3. Engineering Mathematics
4. Fundamental Discrete Structure

## Diploma

1. Basic Mathematics
2. Technical Mathematics
3. Fundamental Discrete Structure

# PROGRAMME COMMITTEE

## Year 2014

1. **Coordinator** for Mathematics Support Centre (MSC), Faculty of Industrial Sciences & Technology, Universiti Malaysia Pahang.
2. **Publicity committee** of The 2<sup>nd</sup> International Statistical Conference 2014 (ISM – II) with Applications in Sciences and Engineering, organized by Faculty of Industrial Sciences & Technology, UMP.
3. **Committee member** of Olimpiad Matematik Kebangsaan (OMK) organized by Malaysian Mathematical Sciences Society (PERSAMA).
4. **Committee member** of Oh My Maths!, organized by Faculty of Industrial Sciences & Technology, UMP in collaboration with East Coast Economic Region (ECER).

## Year 2013

1. **Publicity committee** of National Conference on Industry – Academia Initiatives in Biotechnology, organized by Faculty of Industrial Sciences & Technology, UMP.
2. **Committee member** of Olimpiad Matematik Kebangsaan (OMK) organized by Malaysian Mathematical Sciences Society (PERSAMA).

## Year 2012

1. **Committee member** of ez-SciMat Carnival 2012 in conjunction with Science Technology Engineering & Mathematics Program (STEM).
2. **Committee member** (Program book and promotion) of Matemadesa 2012.

Year 2011

1. **Committee member** of Matemadesa 2011.
2. **Committee member** (Souvenior) of “Perasmian dan Pameran Pusat Penyelidikan dan Kecemerlangan Biodiversiti-Bioteknologi Negeri Pahang”.

## **RESEARCH SUMMARY**

Im interested in the application of new mathematical ideas and new computational paradigms to sciences and industry as well as ecosystem, with an emphasis on analysis and numerical analysis of partial differential equations and finite element arising in various field of engineering phenomena.

Research interest:

Numerical analysis, partial differential equations, finite element and fluid dynamics.