

## Nur Azlina binti Mohamed Mokmin

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### Profile

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Previously worked as a lecturer in Politeknik Tuanku Sultanah Bahiyah for seven years before completing a doctorate study at Universiti Sains Malaysia. Active in journal writing, software development, learning material development and software training.

### Areas of Expertise

- IT Implementations
- Instructional Multimedia
- Software Design and Development
- Mathematics Teaching
- Module Writing
- Learning Material Development

### Education

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2013-2016	<b>USM (Universiti Sains Malaysia)</b>	PHD	Instructional Multimedia
2005-2007	<b>UTHM (Universiti Tun Hussein Onn Malaysia)</b>	Master	Education in TVET
2002-2005	<b>UUM (Universiti Utara Malaysia)</b>	Honors Degree	Information technology

### Employment

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**Politeknik Tuanku Sultanah bahiyah**, Lecturer DH44, 2007-2013

- Taught mathematics and computer subjects.
- Designed and developed learning materials.
- Developed learning kit for the subject Computer Application.
- Developed timetable web-based system.
- Giving short courses related to software learning.
- Actively involved in community events.

Selected projects:

- **E-Jadual PTSB** (Politeknik Tuanku Sultanah bahiyah) 2011-Present  
My role:
  - Developed a complete web-based timetable system for timetable management.
  - Served as project control officer and technical specialist
- **Mathematics and Computer Application Module** (Department of Mathematics, Science and Computer) 2008-2013  
My role:
  - Developed learning materials for Mathematics and Computer Application
- **BC101 Learning Kit** (Department of Mathematics, Science and Computer) 2008-2009  
My role:
  - Developed a learning kit for the subject Computer Application

### Skills

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- Experienced user for Microsoft Office – Word, Excel, PowerPoint, Outlook and Access
- Programmer for C++ , Java, PHP and Flash
- Programmer and Trainer for Articulate Storyline
- Professional Certificate holder for AutoCAD

## Published Papers

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- Mokmin, N. A. M., & Masood, M. (2014). Development of multimedia application for learning algebra. *Journal of Education and Practice*, 5(5), 156-159.
- Mokmin, N. A. M., & Masood, M. (2014). Development of multimedia learning application for mastery learning style: a graduated difficulty strategy. *International Journal of Social, Behavioral, Educational, Economic and Management Engineering*, 1(12), 2014
- Mokmin, N. A. M., & Masood, M. (2015). Case-based reasoning and profiling system for learning mathematics (CBR-PROMATH). *Advanced Computer and Communication Engineering Technology: Proceedings of the 1st International Conference on Communication and Computer Engineering*, 939-948.
- Mokmin, N. A. M., & Masood, M. (2015). The development of self-expressive learning material for algebra learning: An inductive learning strategy. *Procedia – Social and Behavior Science*, 197(25), 1847–1852.
- Mokmin, N. A. M., Masood, M., Ismail, N., Ahmad, N. A, Hassan, S., Yunus, M. H., Abidin, M. H. Z. (2015). Assessment of students' understanding on algebraic fraction. ASCENT 2015 – *Proceedings of Education, Learning and Training*.
- Mokmin, N. A. M., & Masood, M. (2015). Assessment of Polytechnic Students' Understanding of Basic Algebra. Innovation and Analytics Conference and Exhibition (IACE 2015): *Proceedings of the 2nd Innovation and Analytics Conference & Exhibition* (p. 030023).
- Mokmin, N. A. M., & Masood, M. (2015). Development of a multimedia learning application for mathematics according to learning style preferences. Innovation and Analytics Conference and Exhibition (IACE 2015): *Proceedings of the 2nd Innovation and Analytics Conference & Exhibition*.
- Mokmin, N. A. M., & Masood, M. (2015). The effect of four differentiated multimedia learning materials in algebra learning. *The 8th Annual International Conference of Education, Research and Innovation*
- Mokmin, N. A. M., & Masood, M. (2016). Multimedia learning material of real-life example for learning algebraic fractions, *INTED2016 Proceedings*, pp. 6902-6907.
- Mokmin, N. A. M., & Masood, M. (2016). The application of concept attainment learning strategy for algebra, *INTED2016 Proceedings*, pp. 6908-6912.
- Masood, M & Mokmin, N. A. M (2016). Using a searching game application to learn algebra: applying inductive learning strategy, *INTED2016 Proceedings*, p. 972.
- Mokmin, N. A. M., & Masood, M. (2017). Personalization of learning materials for mathematics learning using a case-based reasoning algorithm. *Journal of Telecommunication, Electronic and Computer Engineering (JTEC)*.

## Awards

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- **Finalist for National Innovation Competition - 2008** Project Name-BC101 Learning Kit
- **Winner for Northern Zone Innovation Award – 2012** Project Name- E-Jadual
- **Finalist for National Innovation Competition - 2013** Project Name - E-Jadual
- **Winner of Gold Award for Innovative Practices in Education and Exhibition (I-PEINX) 2016**  
Project Name – CRYSTAL (Case-based Reasoning Tutoring System for Learning Algebra)
- **Winner of Best of the Best Award for Innovative Practices in Education and Exhibition (I-PEINX) 2016**  
Project Name – CRYSTAL (Case-based Reasoning Tutoring System for Learning Algebra)

## Product obtained Copyright Protection

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- CRISTAL (Case-based Reasoning Intelligent System for Tutoring Algebra Learning)