



WOLFRAM EDUCATION GROUP
Certified *Mathematica* Training

MATHEMATICA PUBLIC TRAINING



Dr. Paul Abbott

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OPTIMAL EXPERT

A FIRST COURSE IN MATHEMATICA

Date: 19-21 APRIL 2006

Course Objective

To provide in a two-day training course direct experience with all of the basic features of *Mathematica* as well as a comprehensive foundation for developing advanced applications of the system

Presenter

Wolfram Education Group certified instructor, **Dr. Paul Abbott**

Course Outline

MODULE 01: Mathematica basic operations and computations

MODULE 02: Mathematica Programming I

MODULE 03: Graphics

MODULE 04: Notebooks and Typesetting

MODULE 05: Tour of the mathematical features

MODULE 06: Mathematica Programming II

MODULE 07: Packages and Files

MODULE 08: Examples and Applications



RM300 ONLY

CONTACT US:

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WE are Authorized Training Provider

(ATP) By Pembangunan Sumber Manusia Berhad (PSMB) under SCHEME:

- SBL
- SBL KHAS
- PROLUS

Training Benefits:

- A certificate signed by Dr. Paul Abbott
- A set of course notes in both print and electronic form.
- A copy of Mathematica trial CD
- Practical, hands-on experience to bring users up to speed quickly
- We limit the numbers on each course for an optimum delegate/trainer ratio, because people learn better in smaller groups and there is greater opportunity for tuition at a more individual level.

VENUE: Makmal 1, Fakulti Sains, Institute of Mathematical Sciences, Universiti Malaya, Kuala Lumpur

TIME: 9.30am~4.30pm (3 days)

Call NOW for more details! Mr. Albert Lee 03-56333345 / 012-2131299

Email: albert@linearsoft.net **Website:** <http://www.linearsoft.net>

A FIRST COURSE IN MATHEMATICA

Course Objective

To provide in a two-day training course direct experience with all of the basic features of *Mathematica* as well as a comprehensive foundation for developing advanced applications of the system

Presenter

The course is presented by a Wolfram Education Group certified instructor, Dr. Paul Abbott

Target Audience

The course is designed primarily for people who are interested in becoming expert *Mathematica* users but who currently have little or no experience with the system. This course can also be helpful for experienced users who would like to broaden their basic understanding of *Mathematica* and for those interested in learning exactly what the system can do.

Delivery Type

Courses are delivered as instructor-led classes in computer classroom facilities or as online classes delivered over the web. Course topics are presented with alternating sessions of lectures and exercises.

Syllabus

This basic course is organized into eight segments.

1 Introduction

Step-by-step instruction on performing basic operations, building up computations, and navigating the user interface as well as a description of sources for additional information and a tour of the features of the system

2 Programming I

Introduction to the *Mathematica* programming language with emphasis on familiar programming tasks involving procedural, functional, and rule-based styles of programming

3 Graphics

Two- and three-dimensional plotting, plotting data, using options, labeling plots, and manipulating graphical expressions

4 Notebooks and Typesetting

Introduction to the notebook interface, cells and cell styles, style sheets, typesetting, and formatting features

5 Mathematics

Tour of the mathematical features of the system with a focus on symbolic and numerical calculations

6 Programming II

A deeper look at the syntax and structure of the *Mathematica* programming language, functional programming, developing larger programs, and making your programs more efficient

7 Packages and Files

Writing *Mathematica* packages; importing and exporting expressions, files, and data

8 Examples and Applications

A set of extended projects designed to give practice in using the topics from this course to develop real-world applications. Limited time is frequently available for discussion of special topics chosen by course attendees or at the discretion of the instructor.

Course Materials

Each attendee will be provided with a set of course notes in both print and electronic form. The electronic version of the course requires *Mathematica* to install and run. Computers running *Mathematica* are provided for attendee use during classroom-based sessions.

Prerequisites

Course attendees are expected to have experience with common features of modern computer software. Also helpful are knowledge of mathematics through elementary calculus and experience with computer programming at the level of an introductory course in any computer programming language. No prior *Mathematica* experience is required for this course.



TRAINER PROFILE :

DR. PAUL ABBOTT, WOFRAM RESEARCH, INC.

Dr. Paul Abbott, is one of the most experienced Wolfram Research consultants around today, who has lectured on Mathematica in the U.S., Japan, and India and given many courses at Australian universities. These courses have been attended by professionals and students from a wide range of backgrounds, including people from government departments and financial institutions, scientists, engineers, academics, and medical researchers.



The renowned speaker for Mathematica is finally heading his way to Malaysia for a week-long public seminar & technical workshop this April. Abbott will give a special presentation to demonstrate state-of-the-art *Mathematica* technologies, applicable for both the academic and industrial communities. Abbott is a computational physicist in the School of Physics at the University of Western Australia. Abbott obtained a PhD in theoretical atomic physics from UWA in 1986.

He worked for Wolfram Research Inc. -- the makers of Mathematica -- from 1989-1992, and is presently a Consultant for Wolfram Research Inc. Abbott was the founding technical editor of The Mathematica Journal in 1990 and continues his involvement with the journal as a columnist.

Today he is widely known around the world for his work on applications of Computer Algebra System (CAS) such as *Mathematica*. If you are researchers, engineers and project managers in the domain of scientific computing and related domains, or academicians who teach mathematics and sciences at high school, college or university, as well as students, this will be excellent chance to find out what's unique about Mathematica technology and why it matters to you. How does it compare with other systems? Why is Mathematica predominant in frontier science and technology R&D?

If you use *Mathematica*, or other systems like *Matlab* and *Maple* or you are thinking about joining the community of several million enthusiastic users around the world, this event offers a unique opportunity for you to see and learned new innovations from him personally. His list of credentials goes on.

For more information on Dr. Paul Abbott, please visit his website <http://physics.uwa.edu.au/~paul/>

A FIRST COURSE IN MATHEMATICA (L101)

A TRAINING COURSE WITH DR. PAUL ABBOTT

Date : 19-21 April 2006 (3 Days)
Time : 9:30am – 4:30pm
Cost : RM300/pax
Venue : Makmal 1, Fakulti Sains , Institute of Mathematical Sciences, Universiti Malaya, Kuala Lumpur

REGISTRATION FORM

APPLICANT'S DETAILS:

Name:					
Position:					
Organisation:					
Faculty / Department:					
Postal Address:					
Mobile Phone:		City:		State:	
Telephone:		Fax:		Email:	

I hereby confirm my application for the above-mentioned courses on the specified dates at the total course fee of MYR _____ and declare that I have read and understood the terms and conditions stipulated under the contract.

.....
Signature and Company Stamp

.....
Date

PAYMENT:

• Advanced or Cheque payment must be made payable to **LINEARSOFT SDN. BHD.** , **Public Bank Sri Petaling, Kuala Lumpur: A/C 3124797118**, and crossed "A/C Payee Only". All payments should be received in full one week prior to the course commencement.

TERMS & CONDITIONS:

• A confirmation letter and an official invoice will be sent once the application has been approved. If there is no feedback 3 days after this fax enrollment, please contact us at Tel: 03-5633 3345.

• You will be eligible for a full refund if notice of cancellation is sent 2 weeks before the course commencement. For cancellation less than 2 weeks prior to commencement, no refund will be made. However, you may (1) send a substitute or (2) transfer the registration to another training program within 6 months. Confirmed registrants who fail to attend without cancelling their registration in advance are liable for the entire fee.

• Linearsoft reserves the right to cancel or reschedule any courses. Every effort will be made to inform participants of the change. Fees will be refunded in FULL if a course is cancelled by Linearsoft.

• Authorized customer signature, who by his/her signature acknowledges that he/she agrees to the above standard terms & conditions.

ENQUIRIES:

- Please complete the registration form and fax to us at **03-5621 2180**.
- To obtain more information on our training programs and seminars, please contact us at the following:

Proudly Presented to you by:



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