

---

**2013**

---

## **OPTIMIZATION WITH MATLAB A HANDS-ON WORKSHOP [[PDF](#)]**

**Date:** Thursday November 14, 2013 **Venue:**  
**BL-3-010, Control Systems Laboratory,**  
**College of Engineering, UNITEN, Putrajaya**  
**Campus.**

**Questions:** email [myspsoc@ieee.org](mailto:myspsoc@ieee.org)

**Registration:** Click [here](#) This one-day workshop will provide a hands-on introduction to optimization using MATLAB. You can download the brochure [here](#).

---

# Signal Processing with MATLAB

**A Hands-On Workshop** [[PDF](#)]

**Date:** Thursday April 11, 2013

**Venue:** BL-3-010, Control Systems Laboratory, College of Engineering, UNITEN, Putrajaya Campus.

## Workshops

Written by Administrator

Monday, 01 February 2010 03:11 - Last Updated Thursday, 30 January 2014 11:40

---

This one-day workshop will provide a hands-on introduction to signal processing using MATLAB

.

Details can be found [HERE](#).

You can see how things went [here](#).

---

## Working with MATLAB

**A Hands-On Workshop** [[PDF](#)]

**Date:** Wednesday April 10, 2013

## Workshops

Written by Administrator

Monday, 01 February 2010 03:11 - Last Updated Thursday, 30 January 2014 11:40

---

**Venue:** BL-3-010, Control Systems Laboratory, College of Engineering, UNITEN, Putrajaya Campus.

This one-day workshop will provide a hands-on introduction to MATLAB basics and programming

.

Details can be found [HERE](#).

You can see how things went [here](#)

---

INTENSIVE THREE-DAY WORKSHOP ON REAL-

**TIME IMAGE AND VIDEO PROCESSING [[PDF](#)]**

**Date:** 19th - 21st February 2013

## Workshops

Written by Administrator

Monday, 01 February 2010 03:11 - Last Updated Thursday, 30 January 2014 11:40

---

**Venue:** UTM Razak School, Universiti Teknologi Malaysia, Kuala Lumpur

This is a hands-on workshop tailored to provide the fundamental and state-of-the art Real-time Image and Video Processing using C++ and OpenCV.

Details can be found [HERE](#).

---

---

**2012**

---

**SHORT COURSE ON DATA COMPRESSION STRATEGIES**

## **Dr. R. Logeswaran (NILAI UNIVERSITY)**

**DATE: 29-30 MAY 2012**

**VENUE: MULTIMEDIA UNIVERSITY, CYBERJAYA.**

This is an introductory short course tailored to provide the fundamentals of lossless and lossy data compression concepts to enable the participants to gain insight into effective data compression strategies in order to use and develop their own compression methodologies.

### Course Outline:

1. Introduction to Data Compression

2. Fundamentals of Lossless Data compression & Applications

3. Fundamentals of Lossy Data compression & Applications

4. Measurements for Performance Evaluation

5. Hands-on Tutorials (building a data compression strategy)

# **SIGNAL PROCESSING WITH MATLAB: A HANDS-ON WORKSHOP**

**Syed Khaleel Ahmed (UNIVERSITI TENAGA NASIONAL)**

**DATE: 12 APRIL 2012**  
**VENUE: UNIVERSITI TENAGA NASIONAL,**  
**PUTRAJAYA.**

Workshop Syllabus:

1. Introduction

2. Representation of Signals

3. Representation of Systems (Filters)

4. Time-Domain Analysis

5. Frequency Domain Analysis



## 6. Filter Design

## 7. Graphical User Interface

## 8. Signal Processing Blockset

[Here](#) are some photos of the event.

---

## 2011

---

# **INTENSIVE TWO-DAY WORKSHOP ON IMAGE PROCESSING USING MATLAB**

# **DR. FAZLY SALLEH ABAS (MULTIMEDIA UNIVERSITY)**

**DATE: 14-15 SEPTEMBER 2011**  
**VENUE: MULTIMEDIA UNIVERSITY, CYBERJAYA, SELANGOR.**

Workshop Syllabus:

Day 1:

- 
- Introduction to the Image Processing Toolbox
- Working with images: types, read/write, display, conversion, etc.
- Writing M-files
- Basic image processing: histogram processing, image arithmetic, contrast and brightness adjustments.
  
- Image alignment: crop, rotate and resize

- Regional processing: region of interest processing
- Block processing: distinct and sliding block operations
- Common spatial domain filtering: linear, median, and adaptive
- Common frequency domain filtering: filtering in frequency domain

### Day 2:

- 
- Binary image processing and analysis
- Binary and greyscale morphological filters
- Image restoration and reconstruction
- Introduction to video processing in Matlab
- Case studies and discussions

# **NI Labview Programming Workshop**

**mR. kelvin tang (MULTIMEDIA UNIVERSITY)**

**DATE: 18 december 2010**

**VENUE: MULTIMEDIA UNIVERSITY, CYBERJAYA,  
SELANGOR.**

Workshop Syllabus:

- LabVIEW workshop Part-I slides
- LabVIEW workshop Part-II slides
- LabVIEW workshop Part-III slides
- LabVIEW quick reference card
- CLAD Study Guide
- CLAD Exam Sample1
- CLAD Exam sample2

# **INTENSIVE ONE-DAY WORKSHOP ON IMAGE PROCESSING USING MATLAB**

**DR. FAZLY SALLEH ABAS (MULTIMEDIA  
UNIVERSITY)**

**DATE: 19 JUNE 2010**

**VENUE: MULTIMEDIA UNIVERSITY, CYBERJAYA,  
SELANGOR.**

Workshop Syllabus:

- The Basics
- Image Alignment
- Image Enhancement
- Mathematical Morphology
- Feature Extraction
- GUI

# **Intensive One-day Workshop on Building a GUI using MATLAB**

**Mr. Syed Khaleel Ahmed (Uniten)**

**Date: 16 June 2010**

**Venue: universiti tenaga nasional, kajang, Selangor.**

Workshop Syllabus:

- Introduction to GUI
- GUI in MATLAB: Introducing GUIDE
- The Front Panel and its Components
- Other GUI components
- Creating a GUI with GUIDE: An Introductory Example- Laying Out, Saving, Programming and Executing a GUI
- More Complex Examples
- Practical Exercises

**WORKSHOP ON ORTHOGONAL  
FREQUENCY DIVISION MULTIPLEXING**

# **(OFDM) WITH MATLAB PRACTICAL SESSIONS**

**Dr. Mohamad Yusoff Alias (Multimedia University)**

**Date: 15 May 2010**

**Venue: Multimedia University, Cyberjaya, Selangor.**

Workshop Syllabus:

- Signals and Linear Systems
- Random processes
- Analog to digital conversion
- Baseband digital transmission
- Digital transmission through bandlimited channels
  
- Digital transmission via carrier modulation
- Some advanced communications applications



---

**2009**

---

**Matlab for Signal Processing – Time  
Frequency Analysis Module**

**Mahendra V. Chilukuri (Multimedia University)**

**Date: 28 March 2009**

**Venue: Multimedia University, Cyberjaya, Selangor.**

### Workshop Syllabus:

- Review of Signal Processing
- Time-Frequency Analysis (TFA)
- Wavelet Analysis
- Wigner-Ville Distribution
- TFA Engineering Applications
- Case Studies Using Matlab

## **Matlab for Signal Processing – Image Processing Module**

**Dr. Fazly Salleh Abas (Multimedia University)**

**Date: 21 March 2009**

**Venue: Multimedia University, Cyberjaya, Selangor.**

Workshop Syllabus:

- Digital Image Processing
- The Image Processing Toolbox
- A Review of the Fundamentals
- Basic Image Preprocessing and Restoration
- Fundamental Frequency Domain Processing
- Mathematical Morphology
- Colour Processing
- Image Segmentation

# **Matlab for Signal Processing – Signal Processing Module**

**Dr. Khazaimatol Shima Subari (Multimedia University)**

**Date: 14 March 2009**

**Venue: Multimedia University, Cyberjaya, Selangor.**

Workshop Syllabus:

- Introduction to MATLAB
- Signals (sampling frequency, creating signals, reading, plotting, writing, listening)
- Analyzing signals & the FFT function (time, frequency, the spectrogram)
- Convolution, autocorrelation, cross-correlation
- The moving average filter
- FIR and IIR filters (analysis, order and estimation)

- Windows and windowing
- The Power Spectral Density function
- GUI's for filter design and analysis in MATLAB

# **Matlab for Signal Processing – Communications Module**

**Dr. Mohamad Yusoff Alias (Multimedia  
University)**

**Date: 7 March 2009**

**Venue: Multimedia University, Cyberjaya, Selangor.**

### Workshop Syllabus:

- Signals and Linear Systems
- Random processes
- Analog to digital conversion
- Baseband digital transmission
- Digital transmission through bandlimited channels
  
- Digital transmission via carrier modulation
- Some advanced communications applications

---

**2008**

---

# **DSP Summer School**

**Prof. Boualem Boashash, Assoc. Prof. Karim  
Abed Meriam, Prof. Maamar Bettayeb**

**Dates: 18-19 June 2008**

**Venue: Universiti Teknologi Malaysia, Skudai,  
Johor.**