



**Principles
of
Digital Communications**

Training Programme
by
Faculty of Engineering
Multimedia University

Overview

Today's modern wireless networks rely on digital transmission to communicate data between the transmitter and receiver. Digital transmission has many advantages which include resilience to noisy channels and high bandwidth utilization. These are important criterias in today's wireless transmission that demands ultra-high spectral efficiency. In this course, the working principles of digital communications will be explained. We will look at how information is formatted and sent across a digital communication system.

Objective

To understand the working principles of digital communication systems.

Target Audience

Fresh graduates and junior telecommunication engineers.

Prerequisite

Basic understanding of Fourier Transform.

Training Methodology

Online.

Course Duration

4 hours.

Content/Outline

Topics include Nyquist Theorem, digital modulation techniques, OFDM and MIMO.

Course Instructor

Dr. Ivan Ku

Dr. Ivan Ku received his B.Eng. degree in Electronics and M.Eng.Sc. degree in Telecommunications from Multimedia University, Cyberjaya, Malaysia, in 2001 and 2006, respectively, and the Ph.D. degree in Wireless Communications jointly from Heriot-Watt University and the University of Edinburgh, United Kingdom, in 2013. His research interests include green communications, cooperative MIMO systems and multi-user detection.

Administrative Details

Programme Logistics

Duration: 4 hours

Dates, registration deadline and registration form:

Please refer to: <https://www.mmu.edu.my/foe/short-courses/>



Your Investment

Condition		Price per Pax
Regular Fee	Students / MMU Alumni	RM250
	Public	RM400
	Public (Group >5 pax)	RM300
	IEM/IEEE Members	RM300
Early Bird Fee	Students / MMU Alumni	RM150
	Public	RM300
	Public (Group >5 pax)	N/A
	IEM/IEEE Members	RM200

Method of Payment

Please refer to the next page.

Type of Payment	Method	Details
Local Transaction / Payment within Malaysia	Online Payment with JomPay	<ul style="list-style-type: none"> To get started, login to any preferred internet banking. Look for JomPay to begin the payment process. Enter Ref 1 & Ref 2. <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">  Billers Code : 22202 Ref-1 : <Participant IC/Passport> Ref-2 : <i>Event Name*</i> </div> <p>JomPAY online at Internet and Mobile Banking with your Current, Savings or Credit Card account</p> <p><i>*Ref. 2: FOEDigiComm</i></p>
		<ul style="list-style-type: none"> To get started, go to MMU website (https://www.mmu.edu.my/) > Admission > Financial Info > Payment Channel > Non Student ; <div style="border: 1px solid gray; padding: 5px; margin: 10px 0;"> <p>E-Payment To begin the payment process, please click Student or Non Students</p> <div style="display: flex; justify-content: space-around; align-items: center;">    </div> <p>Student Non-Student</p> </div> <p>or scan the QR code below to begin the process:</p> <div style="text-align: center; margin: 10px 0;">  <div style="background-color: black; color: white; padding: 5px; display: inline-block; border-radius: 10px;">SCAN ME</div> </div> <ul style="list-style-type: none"> Choose Category: Public Training Workshop Name Choose Your Participant Type: <ul style="list-style-type: none"> ✓ STUDEN (MMU, IEEE, IEM, Other Higher Learning Institution) ✓ PUBLIC ✓ GROUP (Group > 5 Pax) ✓ IEEE/M (IEEE/IEM Members)

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International Payment / Payment outside Malaysia	Online payment with Flywire 	<ul style="list-style-type: none"> To get started, go to mmulanding.flywire.com; or scan the QR code to begin the payment process:  <ul style="list-style-type: none"> Choose Conference for Non-students related

Note:

Please submit the proof of payment to organizer for clearance updating purposes within 2 working days.

Refund and Cancellation

Any refunds will be processed in 60 days. Should there be any cancellation, it may be due to the organizer not getting the minimum participants or the participant failing to attend the workshop due to unavoidable reason.

Disclaimer

Faculty of Engineering, Multimedia University reserves the right to change the instructors, date and to vary/cancel the programme should unavoidable circumstances arise. All effort will be taken to inform participants of the changes. Upon submission of the registration form, you are deemed to have read and accepted the terms.

Enquiries

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