

Industry Development Programme – Introduction to Broadcast Technology

VENUE: **Wireless Communication Centre,
Faculty of Telecommunication,
Universiti Teknologi Malaysia,
Skudai, Johor**

8th to 10th October 2012

a collaboration programme between



SKMM Academy, Suruhanjaya Komunikasi dan Multimedia Malaysia

and

Wireless Communication Centre (WCC), Universiti Teknologi Malaysia

Industry Development Programme – Introduction to Broadcast Technology

WCC, UTM 8th to 10th October 2012

Programme Overview

The Introduction to Broadcast Technology training is conducted over a period of 3 days and delivered by Academics. The programme will be held at the Wireless Communication Centre of Universiti Teknologi Malaysia in Skudai Johor. The course is designed by academics and SKMM regulators with extensive knowledge in spectrum management.

The programme looks at the development of the broadcasting systems and services (in Malaysia – options). It covers both analog to digital broadcasting standards. Specifically, it describes in detail, television, radio (sound), and satellite broadcasting. The programme begins with an overview of broadcasting services followed by the academic definition of broadcast channels. It covers topics such as the broadcasting transceiver structures, modulations and standards. The concept of satellite TV and radio broadcasting will also be presented.

The knowledge of digital dividend will be the highlight of the three days programme, where the values of digital dividend for the emerging technologies are discussed and explained. At the end of the programme, a dialogue is performed on the issues of digital dividend in Malaysia in order to exchange views between participants and facilitators.



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Who Should Attend

The course caters to the needs of those working within the broadcast sectors with an interest in the future development in terrestrial broadcasting.

Course Objectives

By the end of the programme, participants should be able to:

- understand the concept of analog and digital broadcasting services.
- differentiate between broadcasting standards, i.e. Radio, TV, and Satellite.
- demonstrate knowledge of broadcast channels from the perspective of information theory.
- explain the concept of the digital dividend.

Participant Evaluation

At the end of training participants are tested on their understanding of broadcast technology and concept of the digital dividend. Those who have successfully passed the examination will be awarded a certificate.



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Instructors' Biodata

Dr. Norhudah Seman received her B.Eng. in Electrical Engineering (Telecommunications) from Universiti Teknologi Malaysia (UTM) in 2003 and M.Eng. in RF/Microwave Communications from The University of Queensland, Brisbane, St. Lucia, Queensland Australia in 2005. In September 2009, she completed her PhD at the same university. She previously worked as an engineer with Motorola Technology, Penang Malaysia in 2003 where she was involved with RF and microwave components design and testing. She is a senior lecturer in the Faculty of Electrical Engineering UTM and an academic staff member of Wireless Communication Centre (WCC). She has published two book chapters in a book entitled "Microwave and Millimeter Wave Technologies" and written about 16 technical articles of international journals and conference papers. Her research interests concern the design of microwave circuits for biomedical and industrial applications, UWB technologies and mobile communications. She may be contacted at huda@fke.utm.my



Dr. Marwan Hadri Azmi received her B.Eng. in Electrical Engineering (Telecommunications) from Universiti Teknologi Malaysia (UTM) in 2003 and M.Sc. Degree in Communications and Signal Processing from Imperial College of Science, Technology and Medicine, University of London in 2005 and the Ph. D degree from the University of New South Wales, Australia in 2012. He is currently a lecturer in Universiti Teknologi Malaysia. His research interests include communication, information and coding theory focusing on cooperative communications and LPDC coding.



He may be contacted at hadri@fke.utm.my



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Programme Agenda

DAY 1

Time	Module/Activity
8.30am - 9.00am	Registration
9.00am - 9.20am	Opening Address
9.20am - 9.30am	Group Photo Session
9.30am - 10.30am	Topic 1: Introduction to Broadcasting Services
10.30am - 11.00am	Tea Break
11.00am - 1.00pm	Topic 2 – Broadcast Channel from The Point of View of Information Theory.
1.00pm - 2.00pm	Lunch
2.00pm - 3.30pm	Topic 3 – Analog Broadcasting – Radio
3.30pm - 4.00pm	Tea Break
4.00pm - 5.30pm	Topic 4 – Analog Broadcasting – TV

DAY 2

Time	Module/Activity
8.30am - 10.30am	Topic 5 – Digital Broadcasting
10.30am - 11.00am	Tea Break
11.00am - 1.00pm	Topic 6 - Digital Audio Broadcasting (DAB)
1.00pm - 2.00pm	Lunch Break
2.00pm - 3.30pm	Topic 7 – Digital Terrestrial Television Broadcasting (DTTB)
3.30pm - 4.00pm	Tea Break
4.00pm - 5.30pm	Topic 8 – Satellite Broadcasting

DAY 3

Time	Module/Activity
8.30am - 10.30am	Topic 9 - Digital Dividend
10.30am - 11.00am	Tea Break
11.00am - 1.00pm	Topic 10 - Issues in Digital Dividend
1.00pm - 2.00pm	Lunch Break
2.00pm - 3.30pm	Topic 11 - Written exam and closing ceremony
3.30pm - 4.00pm	Tea



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Registration Form

Course Title:	Introduction to Broadcast Technology
Dates:	8 th to 10 th October 2012
Venue:	Wireless Communication Centre, Faculty of Telecommunication, Universiti Teknologi Malaysia, Skudai.
Fees*:	RM300/-

*Fees do not include accommodation and travelling expenses and these are to be borne by participants.

DELEGATE DETAILS

Name of Participant	Designation and Department	Organisation and Address
Email Address	Direct Line	Mobile Number
Signature and Company stamp		Date

The closing date for registration has been extended to 4.00 pm 28th September 2012. For queries please contact us at the address below, send an email to skmm.academy@cmc.gov.my or call any of the following numbers:

Azhar Zin	+60 (3) 86 88 81 62
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