



SKMM
INDUSTRY DEVELOPMENT
PROGRAMMES 2013
IDP2013



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SKMM

We recognize that Human Capital development is crucial to achieve the Vision, Mission and Objectives of SKMM. The elements of learning and training are to ensure all SKMM team members acquire the right knowledge and skills to enhance competencies.

SKMM shall be supported in this role by **SKMM Academy** with the following Vision, Mission and Strategy:

SKMM Academy

Vision

To become a Centre of Excellence & Reference for the Communications & Multimedia Industry.

Mission

To develop competent human capital with sound leadership and management capabilities for SKMM and industry.

SKMM Academy Strategy

- Inculcate SKMM core values guided by professionalism and ethical values through all learning and development activities
- Institutionalize sound organizational culture to fulfill internal and external stakeholders' expectations to achieve organizational synergy
- Deliver and encourage continuous learning to add value to the Communications & Multimedia Industry

Overview of IDP 2013

The Industry Development Programme (IDP) series of technical training was first initiated with Universiti Teknologi Malaysia in 2011 starting with a collaborative session entitled Advanced Spectrum Management. In 2012 the list of programmes was expanded to 6 programmes. For 2013 SKMM Academy aims to develop knowledge and capability further by providing a revised repertoire of 11 technical programmes.

For 2013, we are happy to invite participation from industry members, government representatives, academia and members of the public.

In line with SKMM's developmental functions we are providing these programmes to ensure that the fundamental knowledge related to spectrum management and the technologies which are used to harness spectrum is accessible to all those requiring it.

At the heart of the IDP 2013 is the desire to share knowledge and we very much welcome your participation to the programmes in the 2013 line-up. We also very welcome further collaborations to share other critical knowledge areas and welcome future tie-ups.



IDP 2013 Snapshot

Ser	Programme	Venue	Programme Date(s)	Registration Closing Date(s)
1	Long Term Evolution (LTE) Technology	Wireless Communication Centre, UTM, Skudai	⇒ 6-9 May 2013 ⇒ 1-4 July 2013 ⇒ 7-10 October 2013 ⇒ 2-5 December 2013	⇒ 18 April 2013 ⇒ 14 June 2013 ⇒ 11 September 2013 ⇒ 12 November 2013
2	Spectrum Management for non-Engineers	SKMM Academy, Cyberjaya	⇒ 11-13 June 2013	⇒ 21 May 2013
3	Mobile Communication Systems: Evolution Towards Mobile Broadband	SKMM Academy, Cyberjaya	⇒ 27-29 August 2013	⇒ 1 August 2013
4	Antenna & Propagation: Theory to Practice	SKMM Academy, Cyberjaya	⇒ 18-20 June 2013	⇒ 30 May 2013
5	Fundamentals of Satellite Communication	SKMM Academy and MEASAT Teleport & Broadcast Centre	⇒ 13-15 May 2013 ⇒ 21 - 23 October 2013	⇒ 26 April 2013 ⇒ 18 September 2013
6	Digital Video Broadcasting Terrestrial (DVBt2)	SKMM Academy, Cyberjaya	⇒ 25-27 June 2013	⇒ 5 June 2013
7	Radio Frequency Spectrum and LTE Technology for Non- Engineers	SKMM Academy, Cyberjaya	⇒ 18-19 September 2013	⇒ 27 August 2013
8	Spectrum Management Module I - Radio Spectrum Fundamentals	Wireless Communication Centre, UTM, Skudai	⇒ 20-22 August 2013	⇒ 1 August 2013
9	Spectrum Management Module II - Radio Spectrum Harmonisation and Economics	SKMM Academy, Cyberjaya	⇒ 9-13 September 2013	⇒ 21 August 2013
10	Spectrum Management Module III - Radio Spectrum Control & Monitoring and Standardisation	SKMM Academy, Cyberjaya	⇒ 23-27 September 2013	⇒ 21 August 2013
11	Hybrid Optical and Wireless Technologies for Next Generation Applications	SKMM Academy, Cyberjaya	⇒ 19-21 November 2013	⇒ 29 October 2013



INDUSTRY DEVELOPMENT PROGRAMMES 2013



DIRECTORY



1

TITLE	
Long Term Evolution (LTE) Technology	
Synopsis	<p>The LTE Technology training is held at the SKMM funded LTE Laboratory at the Wireless Communication Centre of Universiti Teknologi Malaysia in Skudai Johor.</p> <p>LTE Technology focuses on overview of the LTE in terms of architecture, air interface, physical layer and protocol. Participants be exposed to demonstration and simulation related to LTE Technology.</p>
Programme Leaders	Prof. Dr. Tharek Abd. Rahman & Dr. Bruce Leow
Programme Dates	<p>4 Sessions for 2013:</p> <p>⇒ 6-9 May 2013 (closing date 19 April 2013)</p> <p>⇒ 1-4 July 2013 (closing date 14 June 2013)</p> <p>⇒ 7-10 October 2013 (closing date 11 September 2013)</p> <p>⇒ 2-5 December 2013 (closing date 12 November 2013)</p>
Duration	4 Days
Venue	Wireless Communication Centre, UTM, Skudai
Programme Goals	<p>The course provides participants with a sound grounding and understanding on the basic concepts and technical aspects of LTE below:</p> <ul style="list-style-type: none"> • Evolution of Mobile Radio System • Basic concepts of LTE Air Interface • Architectures – evolved LTE Radio network (E-UTRAN) • LTE Radio Protocol Architecture • Multiple Access and MIMO Technology used in LTE • Different categories and capabilities of LTE UE • Factors to consider in deployin LTE networks • Understand LTE Technology through Laboratory demonstration
Audience	Engineers, researchers related to wireless communication technology and those in design, test, sales, marketing, system engineering, deployment and regulatory groups.
Class Size	Up to 20 participants
Programme Fees	RM800

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TITLE	
Spectrum Management for non-Engineers	
Synopsis	Spectrum Management for Non- Engineers is a simplified course adapted from Spectrum Management Module I, II and III designed for non-engineers seeking a basic introduction to the engineering, regulatory aspects, and economic elements of Spectrum Management. It is a suitable introduction to those seeking to understand what spectrum is, how it is utilised, how it is priced and how it is regulated and managed.
Programme Leaders	Ir. Hj Mohd Zaki bin Hj Mohd Yusuff & Prof. Dr. Tharek Abd. Rahman
Programme Date	⇒ 11-13 June 2013 (closing date 21 May 2013)
Duration	3 Days
Venue	SKMM Academy, Cyberjaya
Programme Goals	By the end of the programme, participants should be able to: <ul style="list-style-type: none"> • 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.
Audience	Engineers, researchers related to wireless communication technology and those in design, test, sales, marketing, system engineering, deployment and regulatory groups.
Class Size	Up to 25 participants
Programme Fees	RM300

a collaboration programme between  	
IDP 2013	
3	
TITLE	Mobile Communication Systems: Evolution Towards Mobile Broadband
Synopsis	Mobile Communication System focuses on overview of the Cellular Technology in terms of basic concept, existing and new mobile communications, mobile propagation and spectrum issues.
Programme Leader	Prof. Dr. Tharek Abd. Rahman and Chua Tien Han
Programme Date	⇒ 27-29 August 2013 (closing date 1 August 2013)
Duration	3 Days
Venue	SKMM Academy, Cyberjaya
Programme Goals	The course provides participants with a sound grounding and understanding on the Mobile Communication System as follows: <ul style="list-style-type: none"> • Introduction • Basic Cellular Concept • Multiple Access Techniques and Trunking • MIMO Technology used in LTE • 2G and 3G Mobile Communication System • 4G Mobile Communication System • Mobile Propagation Prediction • Coexistence and Sharing of Different Mobile Technologies
Audience	Engineers, researchers related to wireless communication technology and those in design, test, sales, marketing, system engineering, deployment and regulatory groups.
Class Size	Up to 25 participants
Programme Fees	RM300

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4	
TITLE	Antenna & Propagation: Theory to Practice
Synopsis	The training focuses on Antennas and Radio Wave Propagation. During the first portion of the course, participants are introduced to the basic concepts and technical aspects of Antennas including design and hands-on the antenna design in CST Microwave Studio and Return Loss/Radiation Pattern Measurement. This is followed by second portion of the programme where participants will be instructed on the physics of different modes of Radio Propagation and how different communications technology are used to address their impacts.
Programme Leader	Assoc. Prof Dr. Muhammad Ramlee Kamarudin
Programme Date	⇒ 18-20 June 2013 (closing date 30 May 2013)
Duration	3 Days
Venue	SKMM Academy, Cyberjaya
Programme Goals	The course provides participants with a sound grounding and understanding on the basic concepts and technical aspects below: <ol style="list-style-type: none"> 1. Antennas <ul style="list-style-type: none"> • basic antenna function and properties • antenna behaviors • antenna types and designs • CAD antenna design • antenna return loss measurement 2. Radio Propagation <ul style="list-style-type: none"> • smart antenna systems • Radio Communication System (RCS) and history • Wireless Data Communication Technology • frequency spectrum • general terms on propagation
Audience	Engineers, researchers related to wireless communication technology and those in design, test, sales, marketing, system engineering, deployment and regulatory groups.
Class Size	Up to 25 participants
Programme Fees	RM300

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TITLE Fundamentals of Satellite Communication

Synopsis	The training focuses on Satellite Communications. The training is made up of three portions which address the physics, regulatory aspects and operational/commercial elements related to satellite communications. The training includes a visit to a Satellite Earth Station.
Programme Leaders	Prof. Dr. Tharek Abd. Rahman, Zainudin Abdul, and Ahmad Fairus Rahim
Programme Dates	2 Sessions for 2013: ⇒ 13-15 May 2013 (closing date 26 April 2013) ⇒ 21 - 23 October 2013 (closing date 18 September 2013)
Duration	3 Days
Venue	SKMM Academy and MEASAT Teleport & Broadcast Centre, Cyberjaya
Programme Goals	The course provides participants with a sound grounding and understanding on aspects below: <ul style="list-style-type: none"> • Basic concepts of satellite communications systems • Orbital mechanics and orbit determination for satellite systems • Radio propagation effects on satellite performance • Differentiate between different satellite applications • International Legal and Operational Frameworks • Harmonisation and Coordination • Satellite subsystems • In-Orbit Operations and Station Keeping • Commercial Satellite operations
Audience	Engineers, researchers related to wireless communication technology and those in design, test, sales, marketing, system engineering, deployment and regulatory groups.
Class Size	Up to 25 participants
Programme Fees	Not applicable

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IDP 2013

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TITLE Digital Video Broadcasting Terrestrial (DVBt2)

Synopsis	<p>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.</p> <p>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</p>
Programme Leaders	Dr. Norhudah Seman
Programme Date	⇒ 25-27 June 2013 (closing date 5 June 2013)
Duration	3 Days
Venue	SKMM Academy, Cyberjaya
Programme Goals	By the end of the programme, participants should be able to: <ul style="list-style-type: none"> • 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.
Audience	Engineers, researchers related to wireless communication technology and those in design, test, sales, marketing, system engineering, deployment and regulatory groups.
Class Size	Up to 25 participants
Programme Fees	RM300

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TITLE	Radio Frequency Spectrum and LTE Technology for Non- Engineers
Synopsis	Radio Frequency Spectrum and LTE Technology focuses on radio frequency spectrum and overview of the LTE technology. Participants also be exposed to other wireless technology supporting LTE.
Programme Leaders	Ir. Hj Mohd Zaki bin Hj Mohd Yusuff & Prof. Dr. Tharek Abd. Rahman
Programme Date	⇒ 18-19 September 2013 (closing date 27 August 2013)
Duration	2 Days
Venue	SKMM Academy, Cyberjaya
Programme Goals	The course provides participants with a sound grounding and understanding on the basic concepts and technical aspects of LTE below: <ul style="list-style-type: none"> • Radio frequency spectrum • Coexistence and sharing of different wireless technologies • Mobile and Satellite Communication System • Basic concepts of LTE Technology • LTE Architecture and Radio Interface • Multiple Access and MIMO Technology used in LTE • Factors to consider in deploying LTE networks • Wireless system complementing LTE Technology
Audience	Engineers, researchers related to wireless communication technology and those in design, test, sales, marketing, system engineering, deployment and regulatory groups.
Class Size	Up to 25 participants
Programme Fees	RM200

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TITLE	Spectrum Management Module I - Radio Spectrum Fundamentals
Synopsis	Spectrum Management Module I provides an introduction to the radio frequency spectrum including various radio communication services.
Programme Leader	Prof. Dr. Tharek Abd. Rahman
Programme Date	⇒ 20-22 August 2013 (closing date 1 August 2013)
Duration	3 Days
Venue	Wireless Communication Centre, UTM, Skudai
Programme Goals	<ol style="list-style-type: none"> 1. To provide participants with a strong understanding of the following concepts: <ol style="list-style-type: none"> i. Radio Spectrum: <ul style="list-style-type: none"> • Radio Spectrum Engineering • Technical Issues of Radio • Radio Propagation & Modulation • Antennae ii. Radiocommunication Services : <ul style="list-style-type: none"> • Mobile Service • Satellite Service • Fixed Service • Broadcasting Service 2. The module also exposes participants to a variety of practical spectrum management scenarios via: <ol style="list-style-type: none"> iii. Case Studies on: <ul style="list-style-type: none"> • Mobile Planning
Audience	Engineers, researchers related to wireless communication technology and those in design, test, sales, marketing, system engineering, deployment and regulatory groups.
Class Size	Up to 25 participants
Programme Fees	RM300

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TITLE	
Spectrum Management Module II: Radio Spectrum Harmonisation and Economics	
Synopsis	Spectrum Management Module II focuses on the regulatory aspects of the harmonization of radio spectrum, economics of radio spectrum including spectrum pricing, spectrum auctioning, spectrum trading and re-farming of spectrum. The module includes visits to radiocommunication facilities.
Programme Leader	Ir. Hj Mohd Zaki bin Hj Mohd Yusuff
Programme Date	⇒ 9-13 September 2013 (closing date 21 August 2013)
Duration	5 Days
Venue	SKMM Academy, Cyberjaya
Programme Goals	<ol style="list-style-type: none"> 1. To provide participants with a strong understanding of the following concepts: <ol style="list-style-type: none"> i. Radio Spectrum Harmonization: <ul style="list-style-type: none"> • ITU & Radio Regulations • Border and Regional Technical Harmonisation • Regional & World Radio Conference • Satellite Coordination • Spectrum Plan • Standard Radio System Plan • Assignment of Spectrum (SpMS) • Site Inspection & Verification ii. Radio Spectrum Economics: <ul style="list-style-type: none"> • Spectrum Pricing • Spectrum Auctioning • Tender & Beauty Contest • Spectrum Trading • Spectrum Re-farming 2. The module also includes visits to selected Radiocommunication Facilities within the Klang Valley
Audience	Engineers, researchers related to wireless communication technology and those in design, test, sales, marketing, system engineering, deployment and regulatory groups.
Class Size	Up to 25 participants
Programme Fees	RM500

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<div>TITLE</div> <div>Spectrum Management Module III: Radio Spectrum Control & Monitoring and Standardisation</div>	
Synopsis	Spectrum Management Module III focuses on Radio Spectrum Control & Monitoring. Participants be exposed to hands-on experience of selected monitoring systems. The course module also covers the subject on Radio Standardisation, from both an international and local standards authority perspective.
Programme Leader	Ir. Hj Mohd Zaki bin Hj Mohd Yusuff
Programme Date	⇒ 23-27 September 2013 (closing date 21 August 2013)
Duration	5 Days
Venue	SKMM Academy, Cyberjaya
Programme Goals	<p>1. To provide participants with a strong understanding of the following concepts:</p> <ul style="list-style-type: none"> i. Radio Spectrum Control & Monitoring: <ul style="list-style-type: none"> • International Regulations on Control of Interference • Domestic Control of Spectrum Interference • Case Studies of Interference • RFID & Other Low Power Devices • Monitoring System & Equipment • Hands-on Experience with DCMU ii. Radio Standardisation: <ul style="list-style-type: none"> • Standardisation & Certification • Malaysian Standard(MTFSB) • Radio Proficiency • RF Hazards • Introduction to Spectrum Planning Tools <p>2. The module also includes visits to selected broadcasting and base station Facilities within the Klang Valley</p>
Audience	Engineers, researchers related to wireless communication technology and those in design, test, sales, marketing, system engineering, deployment and regulatory groups.
Class Size	Up to 25 participants
Programme Fees	RM500

TITLE	Hybrid Optical and Wireless Technologies for Next Generation Applications
Synopsis	<p>This 3 days course is divided into two parts: Fixed Wireless Services and Radio Over Fiber. The Fixed Wireless Services covers the theoretical aspects of Fixed Services especially on the application, RF component, propagation and RF Spectrum. Participants will also experience a hands-on session with microwave links.</p> <p>The Radio over Fiber portion provides a concise overview of concepts related to the radio over fiber technology. Some of the principles taught in this course include optical communication system overview, optical multiplexing techniques, Radio Over Fiber principles and photonic antenna design. Demonstration on photonic access point design is also included.</p>
Programme Leader	Assoc. Prof. Dr. Razali Ngah
Programme Date	⇒ 19-21 November 2013 (closing date 29 October 2013)
Duration	3 Days
Venue	SKMM Academy, Cyberjaya
Programme Goals	<p>The course provides participants with a sound grounding and understanding on the basic concepts and technical aspects below:</p> <ul style="list-style-type: none">• Basic concept of fixed services• Factors to choose fixed services• Antennas and propagation in fixed services• Application of fixed services• Hands-on microwave link• Optical communication system• Radio over fiber technology• Radio over fiber application and design
Audience	Engineers, researchers related to wireless communication technology and those in design, test, sales, marketing, system engineering, deployment and regulatory groups.
Class Size	Up to 25 participants
Programme Fees	RM300



INDUSTRY DEVELOPMENT PROGRAMMES 2013

PROGRAMME LEADERS DIRECTORY



Prof. Dr. Tharek Abd. Rahman



Prof. Dr. Tharek A. Rahman currently is a professor in wireless communication at faculty of electrical engineering, Universiti Teknologi Malaysia. He obtained his BSc (Hons) (Electrical Engineering) from University of Strathclyde, UK , MSc in Communication Engineering from UMIST, Manchester, UK and PhD in Mobile Communication from University of Bristol, UK.

He is the Director of Wireless Communication Centre (WCC), Faculty of Electrical Engineering, Universiti Teknologi Malaysia and currently conducting research related to 4G for mobile communications, satellite communications, antenna and propagation. He has also conducted various short courses related to mobile and satellite communication to the telecommunication industry and government agencies since 1988. Prof. Tharek has published more than 200 scientific papers in journals and conferences and obtained many national and international awards. He is also a consultant for many communication companies and an active member in several research academic entities.

Prof. Tharek may be contacted at tharek@fke.utm.my



Ir. Hj Mohd Zaki bin
Hj Mohd Yusuff



Ir. Hj Mohd Zaki bin Hj Mohd Yusuff, has been active in the telecommunications industry since 1977 and has 15 years of direct involvement in spectrum management both at the Malaysian Communications and Multimedia Commission (SKMM) and also at the former Jabatan Telekom Malaysia (Malaysia Telecommunications Department). He graduated from the University of Manchester Institute of Science and Technology with a Degree in Electrical and Electronics.

On returning to Malaysia he joined Jabatan Telekom Malaysia in 1977 where he served in the following capacities: Controller of Telecoms; secondment to the former Ministry of Energy, Telecoms and Post, Malaysia as Technical Advisor; Director of Licensing and Enforcement; and Director of Frequency Management. Haji Zaki later joined SKMM shortly after it was set up in 1999 and retired from SKMM in 2010 as Director of the Spectrum Research & Planning Department. He is a member of the Institution of Engineers Malaysia (IEM), an associate Member of Malaysian Institute of Management and a Professional Engineer, Board of Engineers, Malaysia.

Haji Zaki may be contacted at putihtelur@gmail.com



Dr. Bruce Chee Yen Leow



Dr. Bruce Chee Yen Leow obtained his B.Eng. degree in Computer Engineering from Universiti Teknologi Malaysia (UTM) in 2007. Since July 2007, he has been an academic staff in the Faculty of Electrical Engineering, UTM. In 2011, he obtained a Ph.D. degree from Imperial College London.

He is currently a senior lecturer in the faculty and a member of the Wireless Communication Centre (WCC), UTM. His research interest includes but not limited to wireless relaying, MIMO, linear precoding, multi-user networks, physical layer security, convex optimisation, communications theory and Long-Term Evolution.

Dr Bruce Leow may be contacted at bruceleow@fke.utm.my

Dr. Bruce Chee Yen Leow



Assoc. Prof Dr.
Muhammad Ramlee Kamarudin



Dr. Muhammad Ramlee Kamarudin obtained his first degree majoring in electrical and telecommunication engineering from Universiti Teknologi Malaysia (UTM) in 2003. He then joined UTM as a lecturer in Faculty of Electrical Engineering UTM and attached to the Wireless Communication Centre (WCC). He has been awarded a scholarship from the government of Malaysia to further study in the United Kingdom. He received the M.Sc. in Communication Engineering in 2004 and PhD in 2007 from The University of Birmingham, U.K.. Dr. Ramlee is an author of a book chapter for a book entitled "Antennas and Propagation for Body-Centric Wireless Communicaitons", and IEEE magazine article and a number of technical papers including journals and conferences on antennas performance and design for on-body communication channels and antenna diversity.

His research interests include antenna design for wireless on-body communications, RF and microwave communication systems, antenna diversity and reconfigurable antenna. Currently, Dr. Ramlee is a senior lecturer at the Faculty of Electrical Engineering UTM, an academic staff member of WCC, member of IEEE (MIEEE) and supervising a number of postgraduate and undergraduate students.

Dr. Ramlee may be contacted at ramlee@fke.utm.my

Assoc. Prof Dr. Muhammad Ramlee Kamarudin



Dr. Norhudah Seman



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.

Currently, she is a senior lecturer in 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.

Dr Norhudah may be contacted at huda@fke.utm.my



Assoc. Prof. Dr. Razali Ngah



Assoc. Prof. Dr. Razali Ngah obtained his B.Eng. in Electrical Engineering (Communication) from Universiti Teknologi Malaysia (UTM) Skudai in 1989, M.Sc. in RF Communication Engineering from University of Bradford, U.K. in 1996 and PhD in Photonics from University of Northumbria, U.K. in 2005. Currently, he is an Associate Professor in Faculty of Electrical Engineering UTM. He is also the Deputy Director of Wireless Communication Centre (WCC). His research interests are in mobile radio propagation, antenna and RF design, photonics network, wireless communication systems and radio over fibre (RoF). Dr. Razali has published more than 50 technical papers for various journals and international conferences. His current focus is on his research activity, internal audit committee for the university and supervising postgraduate and undergraduate students.

Dr. Razali may be contacted at razalin@fke.utm.my



Zainudin Bin Abdul



Zainudin Bin Abdul holds a BSc. Aerospace Engineering and a BSc. Aircraft Maintenance Engineering St. Louis University, Missouri, U.S.A. Zainudin possesses some 23 years of industry experience in the aeronautical and satellite industry.

He is currently Vice President -Satellite Engineering and Operations at MEASAT Satellite Systems Sdn. Bhd. and is responsible for overseeing the management of the fleet of MEASAT satellites.

Zainudin has been with MEASAT since 1993. Since joining the company, he has taken on a number of roles related to the design, implementation and operation of the MEASAT fleet. Prior to his current appointment, Zainudin was MEASAT's Director for Fleet Planning and Special Projects.

Zainudin Bin Abdul may be contacted at zainudin@measat.com



Ahmad Fairus Rahim



Ahmad Fairus Rahim obtained his Master's Certificate in Project Management, George Washington University, 2009 and Bachelor of Accounting, Multimedia University, 2001

Ahmad Fairus has more than 10 years of experience in the telecommunications industry with strong background in Finance, Strategic Planning and Project Management. He joined MEASAT Satellite Systems in August 2012 as a Manager, Business Development & Strategic Planning. He, in collaboration with management team, is responsible to identify, develop and implement strategic plans for medium to longer term opportunities to grow MEASAT business. Prior to joining MEASAT, he was with Telekom Malaysia Berhad for 11 years with his last position as an Assistant General Manager, Group Strategy. He was a key member in the programme management office for the successful rollout of High Speed Broadband project, a Public-Private Partnership initiative between TM and government of Malaysia.

Ahmad Fairus is currently Manager, Business Development & Strategic Planning at MEASAT Satellite Systems Sdn. Bhd.

Ahmad Fairus may be contacted at fairus@measat.com



Chua Tien Han



Tien Han Chua received both the B.Sc. (Honours) degree in Electrical Engineering (First Class) and the Master of Engineering in Wireless Engineering from the Universiti Teknologi Malaysia in 2003 and 2007, respectively.

Tien Han was a Tutor (2005-2007) and then a Lecturer (2007- present) at the Wireless Communication Centre, Faculty of Electrical Engineering, Universiti Teknologi Malaysia. He is currently pursuing his Ph.D degree at the Computer Laboratory, University of Cambridge.

His research interests include broadband fixed wireless access systems, radio propagation, channel modelling and measurement.

Mr. Chua may be contacted at thchua@fke.utm.my

Chua Tien Han



IDP REGISTRATION FORM

Course Title:	
Dates:	
Venue:	
Fees*:	

*All accommodation and travelling expenses are to be borne by participants.

DELEGATE DETAILS

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

- Please refer to the programme synopsis for respective programme registration closing dates. Once registered, due to the limited number of available seats, participants are not allowed to change training dates. If classes are full by the time we receive your application, we will contact you to ask if you wish to be put on the waiting list. If a place becomes available we will contact you offer the vacancy.
- Seats will only be guaranteed once payments have been received.
- For additional participants and programmes please reproduce this registration form. We reserve the right to cancel courses due to small numbers. 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
Gayathiri	+60 (3) 86 88 83 19
Suzy	+60 (3) 86 88 82 49
Tukefli	+60 (3) 86 88 83 94
Zachary	+60 (3) 86 88 82 63
Zura	+60 (3) 86 88 84 32

SKMM Academy
Malaysian Communications &
Multimedia Commission
GF & 1st Floor, Prima Avenue 1,
Block 3507, Jalan Teknokrat 5,
63000 Cyberjaya

Registration Form



View from Kuala Lumpur Tower taken during participants' study visit, Advanced Spectrum Management Programme 2012