Telecommunications Fundamentals
March, 05th – 07th 2012
Santika Hotel Bandung

COURSE OVERVIEW
The last few years has witnessed a truly explosive growth in new applications of modern telecommunications in society. The pace of development in some areas of telecommunications such as mobile communication, the Internet, and satellite communication is almost breathtaking. New entrants/recruits to telecommunications-related business will benefit from this Short Course which presents a detailed and authoritative panoramic view of telecommunications without the rigours of Mathematics. The Course will also prove useful to the more experienced engineer and IT professional who wishes to update their knowledge of the current state of play in this rapidly advancing field.

HOW YOU WILL BENEFIT
Telecommunications Fundamentals Short Course is presented over a 4-day period and each day has a different theme. On completing this Course, participants will be well equipped to make informed decisions regarding the suitability of various classes of telecommunication systems (including transmission media) for different applications. They will come away with a clear overall picture of telecommunications in general and an understanding of the features of current telecommunication services. The Course also gives attendees a good foundation on which to build a more detailed study of the exciting subject of telecommunications.

WHO SHOULD ATTEND
Telecommunication Fundamentals is designed for new entrants to the telecommunications industry and anyone wishing to update their knowledge of current and future telecommunication systems. The following persons will particularly find the Course attractive.

* Experienced professionals in a telecommunications-related business who want a detailed but non-mathematical review of telecommunication developments, principles and services.

* Non-engineering professionals involved in marketing, sales, and customer-support services within the telecommunications, media and IT industries.

* Managers and executives who make decisions on their company’s investments in telecommunications, or who simply wish to better understand their technical colleagues and subordinates.

* Anyone with a non-telecommunication background contemplating research work or postgraduate studies in any of the areas of telecommunications, including satellite and mobile communications. The Course provides an excellent starting point, erecting pegs on which to hang further knowledge.

COURSE OUTLINE

RADIO TELECOMMUNICATIONS SYSTEM OVERVIEW
✓ BASIC PRINCIPLES OF RADIO: WHY, WHAT, WHEN, HOW
✓ TELECOMMUNICATIONS RADIO SYSTEM BLOCK DIAGRAM
RF OPTIMIZATION

The basic repeater configuration & parameter's RF
Interference in the repeater system & problem solving
What - why - Pls - how repeater rf optimization
The link budget calculation applied for repeaters.
The Balanced Between-up link and down link
The coverage area measurement methods
The step by step of repeater rf optimization process

ANTENNA SYSTEM IN THE RADIO TELECOMMUNICATION

Introduction to antennas
Examples of antennas in the radio industries
Antenna for transmitter & receiver
Examples of folded dipole antenna &
Examples of Yagi antenna
Antenna parameters & antenna pattern
Antenna input impedance and antenna input matching
Antenna Polarization
Antenna measurements - theory & overview
Antenna installation and do not do
Antenna VSWR measurement in the field
Examples of directional antennas

DIGITAL SYSTEM COMMUNICATION

Introduction to digital radio system
Recognize and identify key features, functions, and applications of Digital Radio System
Digital System Designs
Digital Radio and System Operation
Various Digital System Designs and configurations

ABOUT COURSE LEADERS

DR. Ir. Iskandar, MT., He is currently a lecturer at the School of Electrical Engineering and Informatics (STEI), Department of Electrical Engineering, Laboratory Radio and Gelombang Micro Telecommunications, Institute Technology Bandung (ITB).

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(ISSPA) 2005, Sydney, Australia, vol. 1, August 2005, pp. 267-270,

**Investment fee per delegate:**

IDR. 7,950,000, net
Includes: training materials, bag, stationeries, 2x coffee breaks, luncheon, and gimmick
Excludes: board and lodging, and all statutory taxes.
Payment could be by cash, cheque, or transferred to:
Bank Mandiri, KK Gatot Subroto Bandung
Account No. 131 000 701674 6
Cc. PT. Surya Daya Mandiri

How to register?
Please, contact Lina at PT. Surya Daya Mandiri,
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