COURSE TABLE OF CONTENTS

UMTS/CDMA & LTE-A Cellular Mobile Technologies

OEM: Koenig Original • Duration: 8 Days (60 hrs)

COURSE MODULES & TOPICS

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- Overview of mobile technology generations
- Evolution from 3G to 4G

Module 2: UMTS Overview
- Introduction to UMTS
- Key features of UMTS

Module 3: UMTS Network Architecture
- UMTS network components
- Network structure and interfaces

Module 4: UMTS Network Services
- Types of services in UMTS
- Service delivery mechanisms

Module 5: UMTS Protocols
- UMTS protocol stack
- Protocol functions and roles

Module 6: UMTS Terrestrial Interfaces
- Overview of terrestrial interfaces
- Interface functions in UMTS

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- Physical channels and functions

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Module 10: UMTS Radio Resource Management
- Radio resource management functions
- Resource allocation strategies

Module 11: UMTS Signaling Flow
- Signaling procedures in UMTS
- Call setup and management

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Module 12: LTE Technologies Overview

- Introduction to LTE
- Key LTE technology features

Module 13: LTE Network Architecture

- LTE network components
- Architecture and interfaces

Module 14: LTE Signaling Protocols

- LTE protocol stack
- Signaling procedures in LTE

Module 15: LTE MAC Layer

- MAC layer structure
- MAC functions in LTE

Module 16: LTE Physical Layer

- Physical layer overview
- Physical channels in LTE

Module 17: LTE Procedures and IMS

- LTE operational procedures
- IMS integration with LTE