

Wireless Communication

Written by Administrator

Saturday, 07 November 2009 06:19 -

Subject Code		:
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IA Marks		: 25
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No. of Lecture Hrs/Week		: 04
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Exam Hours		: 03
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Total no. of Lecture Hrs.		: 52
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Exam Marks		: 100
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PART - A

Unit - 1

Introduction to wireless telecommunication systems and Networks, History and Evolution
Different generations of wireless cellular networks 1G, 2g,3G and 4G networks.

6 Hours

Unit - 2

Common Cellular System components, Common cellular network components, Hardware and software, views of cellular networks, 3G cellular systems components, Cellular component identification Call establishment.

6 Hours

Unit - 3

Wireless network architecture and operation, Cellular concept Cell fundamentals, Capacity expansion techniques, Cellular backbone networks, Mobility management, Radio resources and power management Wireless network security

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6 Hours

Unit - 6

CDMA technology, CDMA overview, CDMA channel concept CDMA operations.

8 Hours

Unit - 7

Wireless Modulation techniques and Hardware, Characteristics of air interface, Path loss models, wireless coding techniques, Digital modulation techniques, OFDM, UWB radio techniques, Diversity techniques, Typical GSM Hardware.

6 Hours

Unit - 8

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