

IT8201

Information Technology Essentials

PROFESSIONAL CORE

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Course Description

Course Objective

Course Outcome

Syllabus

Books

Concept Map

Content

Course Description

ITE completely aims on providing basic knowledge in the information technology.

Unit 1

Basics of website

Unit 2

Details the need for scripting

Unit 3

Deals with the need for networking

Unit 4

Explains the basics of mobile communication

Unit 5

Details the basics of applications

Course Objective

1

To introduce the concept of Internet, Networks and its working principles

2

To know scripting languages

3

To understand various applications related to Information Technology

Course Outcomes

- C01 Design and deploy web-sites
- C02 Design and deploy simple web-applications
- C03 Create simple database applications
- C04 Develop information system
- C05 Describe the basics of networking and mobile communications

Syllabus

UNIT I WEB ESSENTIALS

Creating a Website - Working principle of a Website - Browser fundamentals -
Authoring tools - Types of servers: Application Server - Web Server - Database
Server

Syllabus

UNIT II SCRIPTING ESSENTIALS

Need for Scripting languages - Types of scripting languages - Client side scripting - Server side scripting - PHP - Working principle of PHP - PHP Variables - Constants - Operators - Flow Control and Looping - Arrays - Strings - Functions - File Handling - PHP and MySQL - PHP and HTML - Cookies - Simple PHP scripts

Syllabus

UNIT III NETWORKING ESSENTIALS

Fundamental computer network concepts - Types of computer networks - -
Network layers - TCP/IP model - Wireless Local Area Network - Ethernet -
WiFi - Network Routing - Switching - Network components

Syllabus

UNIT IV MOBILE COMMUNICATION ESSENTIALS

Cell phone working fundamentals - Cell phone frequencies & channels - Digital cell phone components - Generations of cellular networks - Cell phone network technologies / architecture - Voice calls & SMS

Syllabus

UNIT V APPLICATION ESSENTIALS

Creation of simple interactive applications - Simple database applications - Multimedia applications - Design and development of information systems - Personal Information System - Information retrieval system - Social networking applications

Text Books Prescribed by the University



Robin Nixon

Learning PHP, MySQL, JavaScript, CSS & HTML5

Third Edition, O'REILLY, 2014.

James F. Kurose

Computer Networking: A Top-Down Approach II

Sixth Edition, Pearson, 2012.

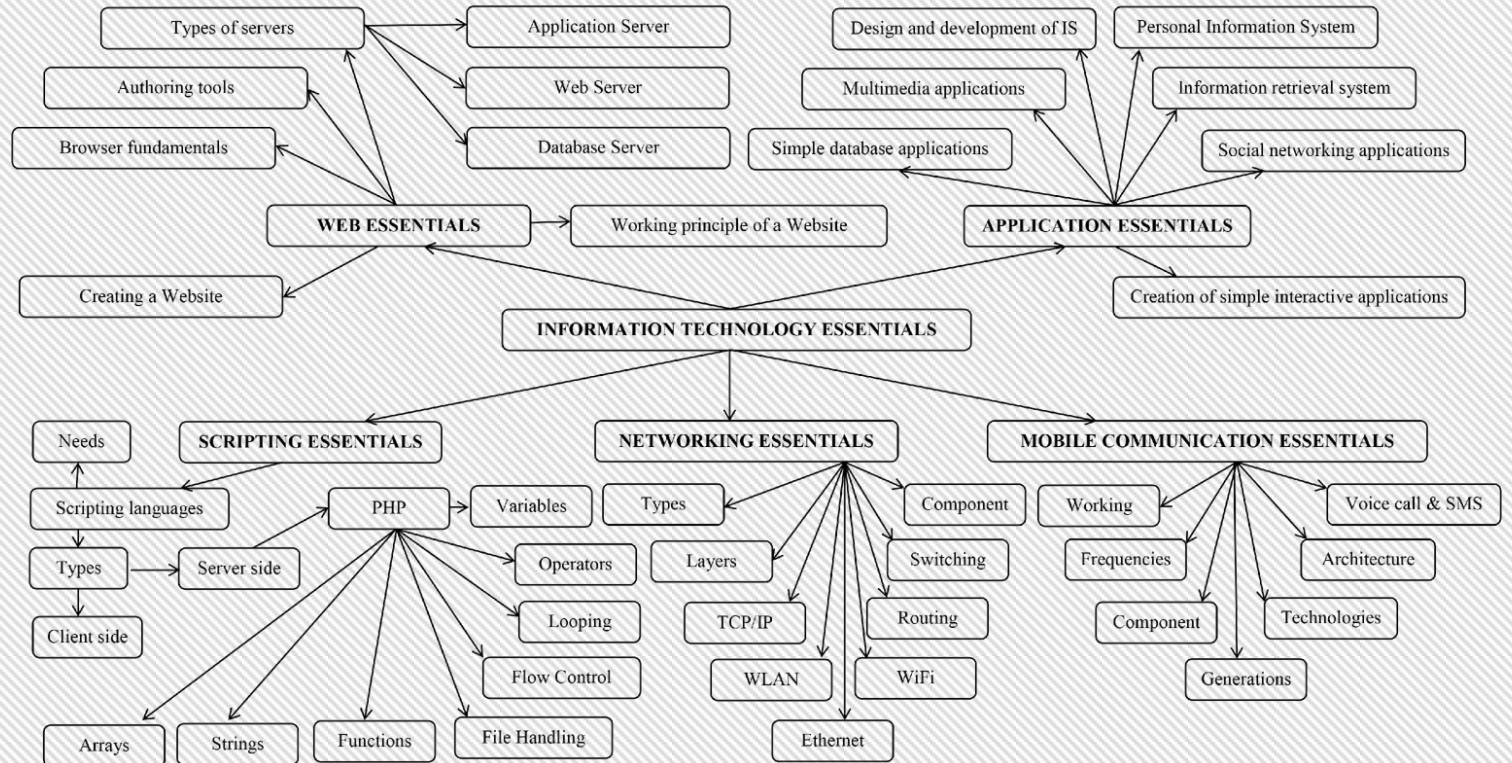
Reference Books Prescribed by the University



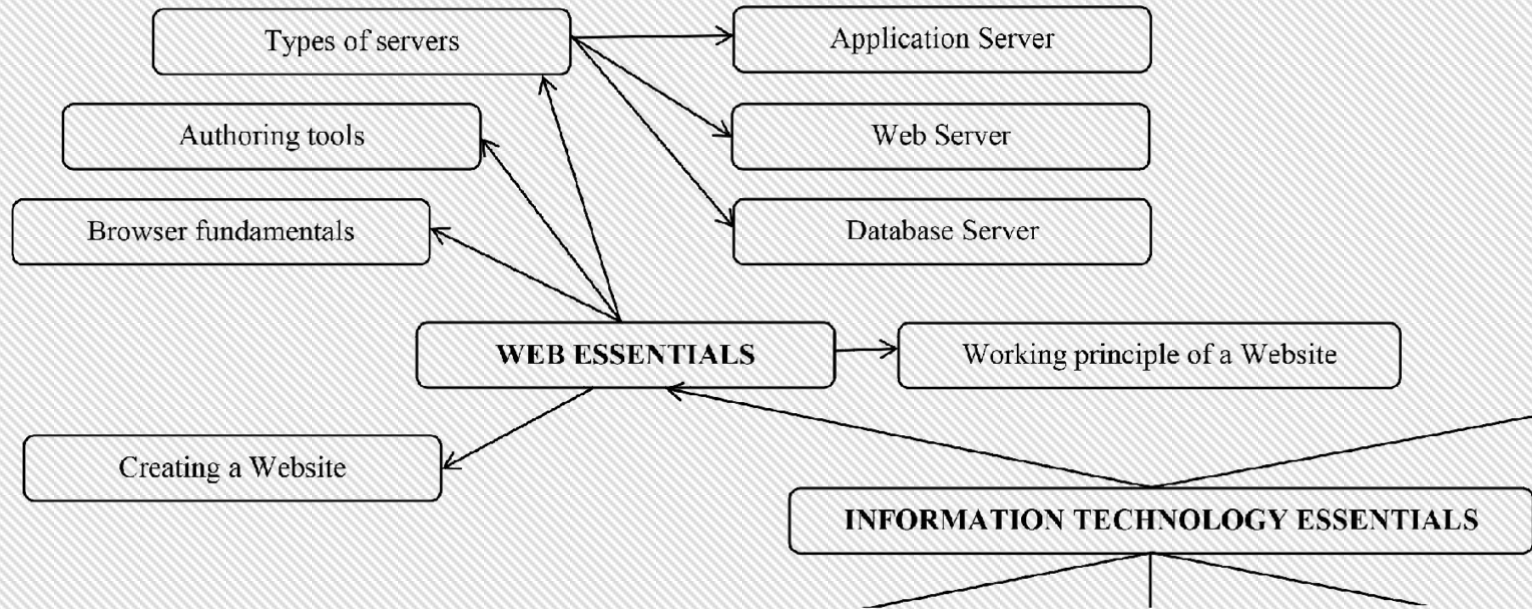
Gottapu Sasibhushana Rao
Mobile Cellular Communication
Pearson, 2012.

R. Kelly Rainer , Casey G. Cegielski , Brad Prince,
Introduction to Information Systems
Fifth Edition, Wiley Publication, 2014.

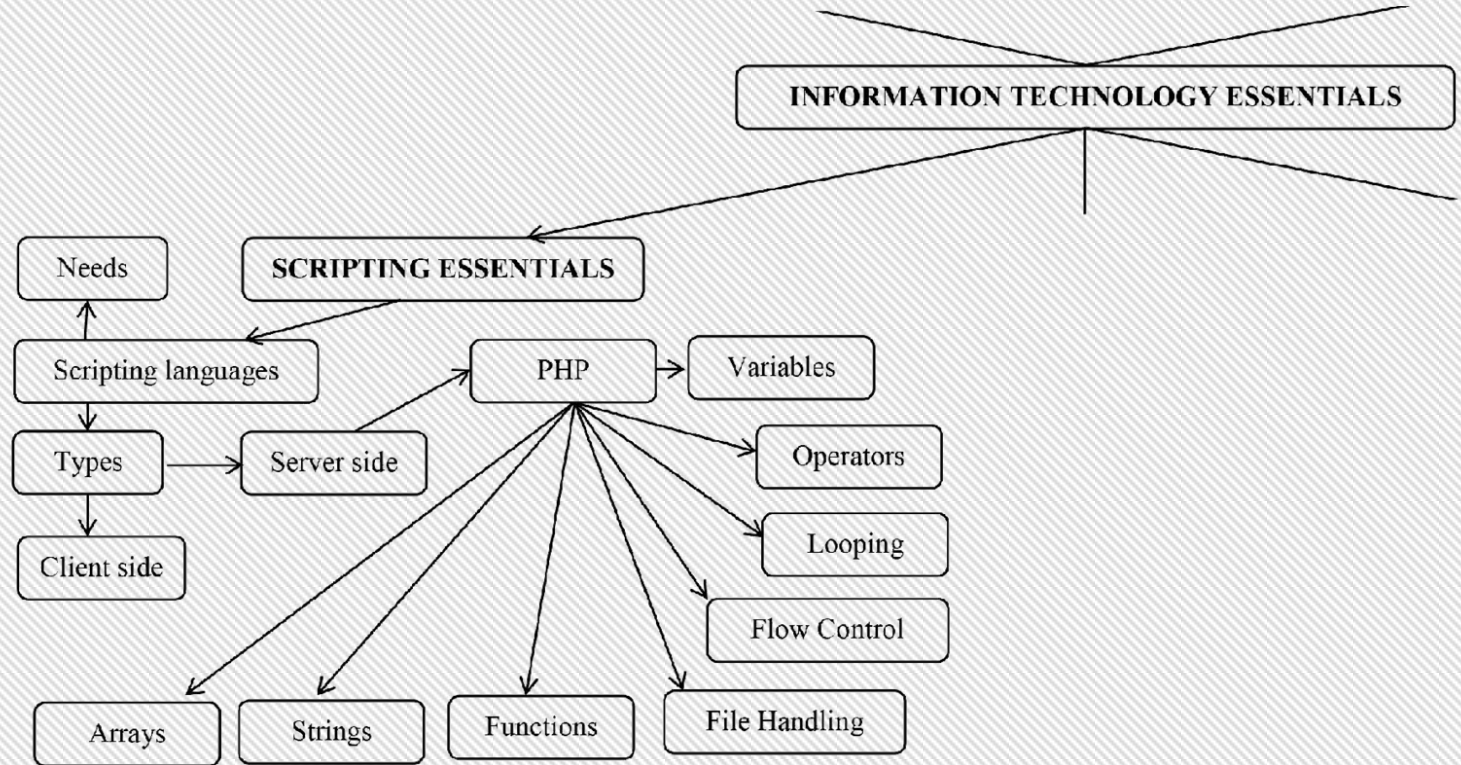
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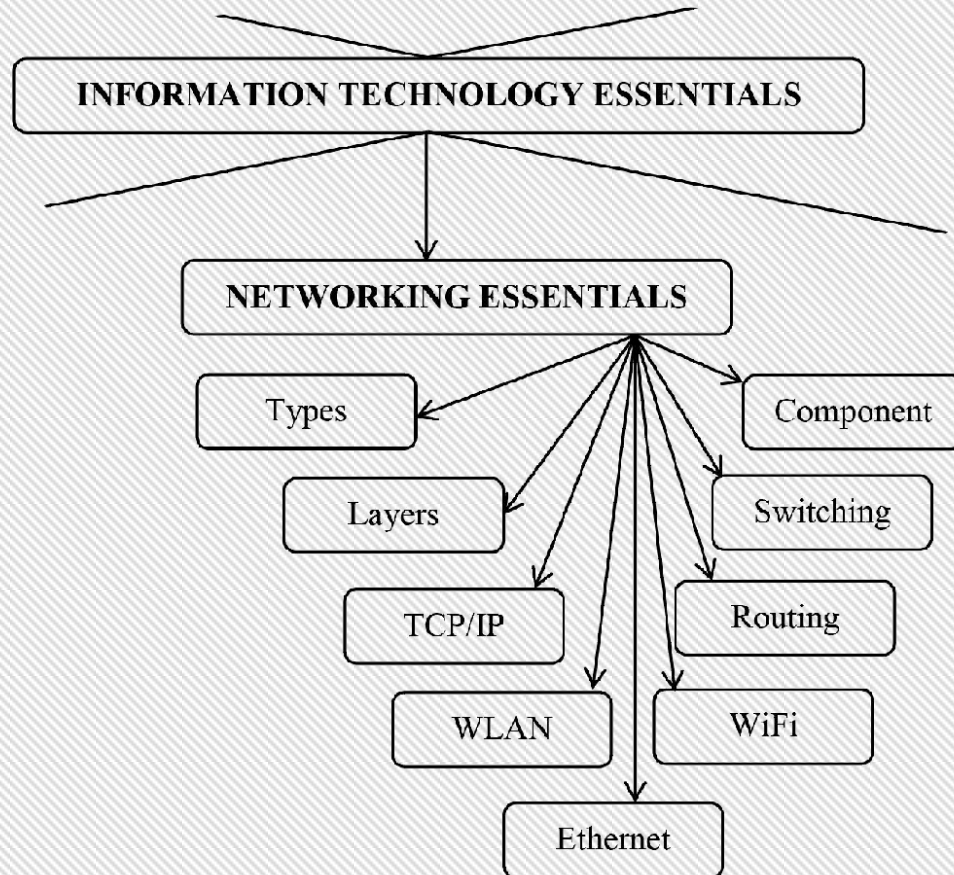
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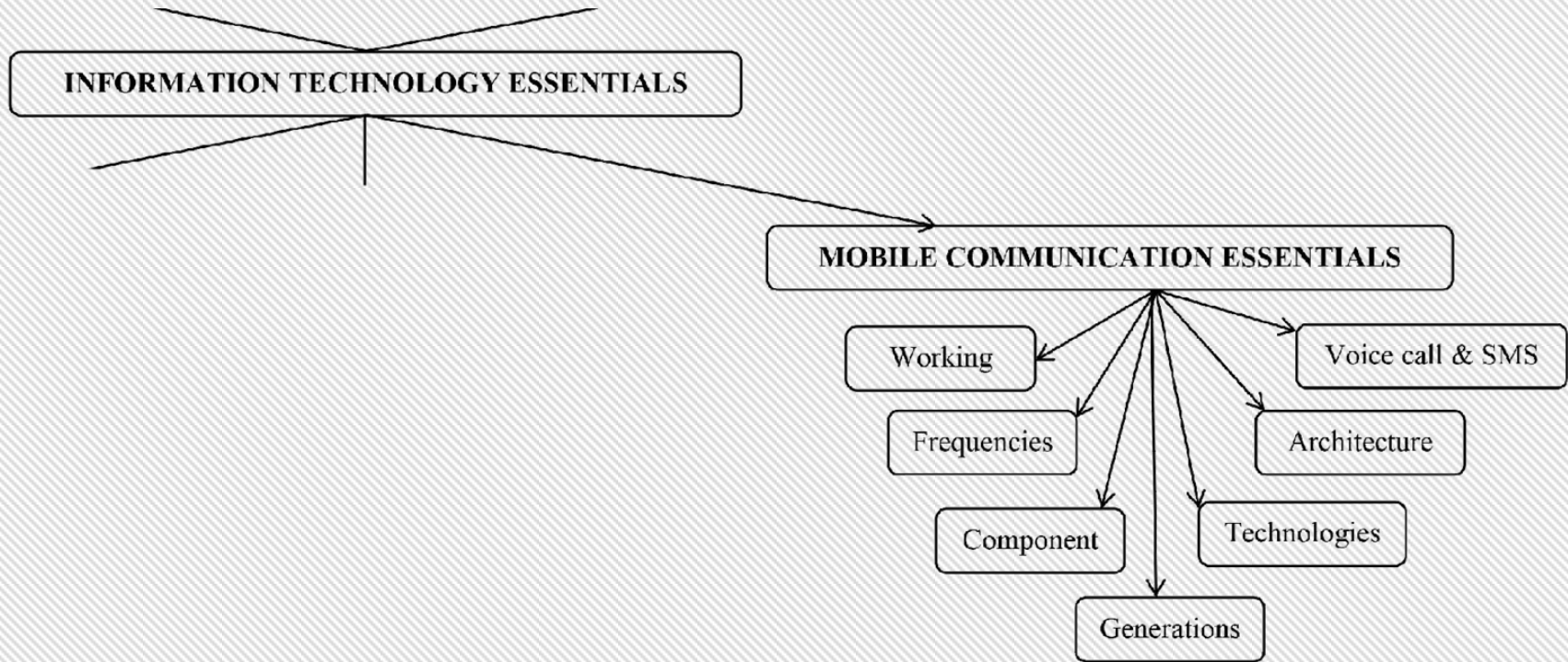
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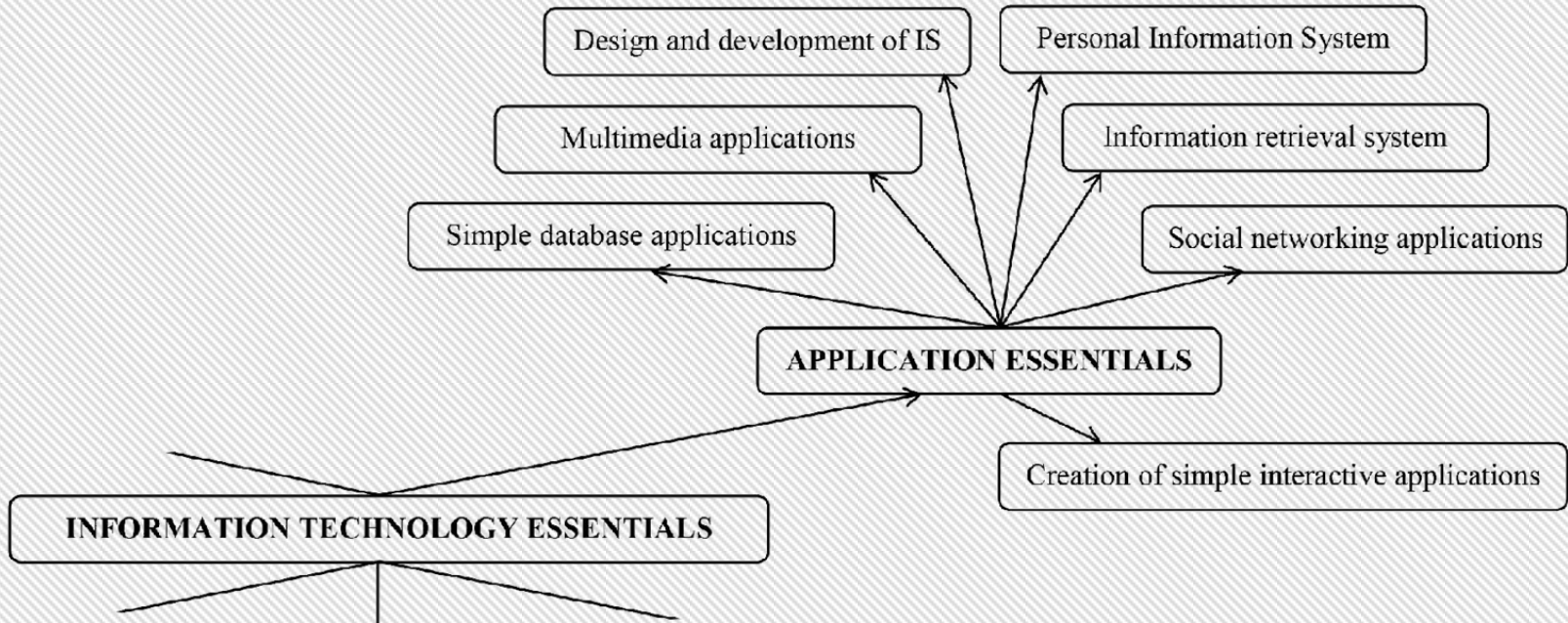
Concept Map



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Thank
you!


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