

IT FUNDAMENTALS PRO SYLLABUS (12 wk)



Week 1	Course Overview	1.1 Chapter Introduction 1.2 What is Information Technology 1.3 Technology and Ethics	
	Information Technology Basics	2.1 Chapter Introduction 2.2 Introduction to Computers 2.3 Digital Data 2.4 Media Formatting 2.5 Digital Media Careers	
	Computer Hardware (Part I)	3.1 Chapter Introduction 3.2 Computing Devices	4 hrs
Week 2	Computer Hardware (Part II)	3.3 Internal Components 3.4 Input and Output	3 hrs
Week 3	Devices and Infrastructure	3.5 Storage 3.6 Hardware Troubleshooting 3.7 Computer Hardware Careers	
	Computer Software (Part I)	4.1 Chapter Introduction 4.2 Operating Systems	5 hrs
Week 4	Computer Software (Part II)	4.3 More System Software 4.4 File Management	4 hrs
Week 5	Computer Software (Part III)	4.5 Application Software 4.6 Printing 4.7 Software Troubleshooting 4.8 System Support Careers	
	Internet Technologies (Part I)	5.1 Chapter Introduction	

		5.2 The World Wide Web	4 hrs
Week 6	Internet Technologies (Part II)	5.3 Web Browsers 5.4 Cloud Computing 5.5 Social Media 5.6 Internet Communications Technology	4 hrs
Week 7	Internet Technologies (Part III) Networking (Part I)	5.7 The Internet of Things 5.8 Online Research 5.9 Internet Technology Careers 6.1 Chapter Introduction 6.2 Networking Basics	3 hrs
Week 8	Networking (Part II)	6.3 Wired and Wireless Networking 6.4 Internet Connectivity 6.5 Networking Protocols 6.6 Application Delivery	5.5 hrs
Week 9	Networking (Part III) Databases (Part I)	6.7 Network Troubleshooting 6.8 Network Careers 7.1 Chapter Introduction 7.2 Introduction to Databases 7.3 Relational Databases	3 hrs
Week 10	Databases (Part II) Programming (Part I)	7.4 Querying Databases 7.5 Nonrelational Databases 7.6 Database Careers 8.1 Chapter Introduction 8.2 Programming Overview 8.3 Programming Fundamentals 8.4 Programming Paradigms and Processes 8.5 Web Development	9 hrs

Week 11

Programming (Part II)

Information Systems

8.6 Programming Careers

9.1 Chapter Introduction

9.2 Introduction to Business Systems

9.3 Data Analysis

9.4 Designing and Implementing Systems

9.5 Intellectual Property

9.6 Information Systems Careers

3.5 hrs

Week 12

Cybersecurity

10.1 Chapter Introduction

10.2 Security Threats

10.3 Authentication

10.4 Data Encryption

10.5 Device Security

10.6 Business Continuity Plans

10.7 Cybersecurity Careers

9 hrs

12 WEEKS

10 TOPICS

65 MODULES

~57 HRS