



Pakistan Urdu School- Kingdom of Bahrain
Curriculum Implementation Plan for ICT Grade XI

No.	Month/Week	Starting Date	Topics from Textbook or Others (Specify Unit Titles and Numbers)	National Curriculum References (Competency, Standards, Themes)	Total Periods
1	<ul style="list-style-type: none"> • April – June • 7 Weeks 	23/04/18	<p>Unit 1 –OVERVIEW OF COMPUTER SYSTEM</p> <p>1.1 Introduction to Computers</p> <ul style="list-style-type: none"> • Computing Devices • Basic Operations of A Computer • Classification of Digital Computers • Modern use of Computers in Today’s Life • Computer Hardware and Software <p>1.2Types of Computer Software</p> <ul style="list-style-type: none"> • System Software • Application Software • Internet Applications • Licensed Software, Open Source Software, Shareware and Freeware • Firmware • Internet Application Security. <p>1.3Computer Hardware</p> <ul style="list-style-type: none"> • Input Devices <p>Lab Outcome</p> <p>Unit 7: DATABASE FUNDAMENTALS</p> <ul style="list-style-type: none"> • Introduction to Database • File Management System • Database • Database Management System (DBMS) 	<p>Standard 1:Computer and Information Literacy</p> <p>Theme: To know the fundamentals of computer and IT, possess Computing skills for speedy information handling and check virus attacks and authentication loopholes to take appropriate remedial measures.</p> <p>Standard 3: Computer Hardware and Software</p> <p>Theme: To have the knowledge of computer system and its operation utilizing various hardware components and different types of software.</p> <p>Standard 7:Database systems</p> <p>Theme: To understand database fundamentals, types, terminologies, entities and relationships, normalization up to 3NF</p>	49

			<ul style="list-style-type: none"> • Advantages of DBMS Over File Management System • Role of Database Administrator (DBA) • Database Models • Database Languages 	and ER-models and develop database application in MS Access/SQL Server/Open Access creating tables and forms and generating queries and reports	
2	<ul style="list-style-type: none"> • Aug – Sept • 2 weeks 	28/08/18	<p>Unit : 2 COMPUTER MEMORY</p> <p>2.1 Introduction to Computer Memory</p> <ul style="list-style-type: none"> • Memory characteristics • Memory Terminology • Memory Built-up and Retention power • Types of Computer Memory <p>Lab Outcome</p> <p>Unit 7: DATABASE FUNDAMENTALS</p> <ul style="list-style-type: none"> • Basic Database Terminologies • Planning A Database . • Data Modeling and Entity-Relationship Diagram . • Data Modeling 	<p>Standard 3: Computer Hardware and Software</p> <p>Theme : To have the knowledge of computer system and its operation utilizing various hardware components and different types of software.</p> <p>Standard 7:Database systems</p> <p>Theme: To understand database fundamentals, types, terminologies, entities and relationships, normalization up to 3NF and ER-models and develop database application in MS Access/SQL Server/Open Access creating tables and forms and generating queries and reports</p>	14
Summer Break 10 June to 25 – August 2018					

2	<ul style="list-style-type: none"> • Oct • 3 weeks 	26/8/2018	<p>Unit : 2 COMPUTER MEMORY</p> <p>2.2 Main Memory</p> <ul style="list-style-type: none"> • Internal Processor Memory • RAM (Random Access Memory) <p>2.3 Secondary Memory</p> <ul style="list-style-type: none"> • Secondary Storage Devices • Sequential Access and Direct Access Memory Devices • Types of Secondary Storage Devices <p>Lab Outcome</p> <p>Unit 7: DATABASE FUNDAMENTALS</p> <ul style="list-style-type: none"> • Entity-Relationship (ER) Diagram. • Cardinality and Modality • Entity- Relationship (ER) Diagram 	<p>Standard 3: Computer Hardware and Software</p> <p>Theme : To have the knowledge of computer system and its operation utilizing various hardware components and different types of software.</p> <p>Standard 7:Database systems</p> <p>Theme: To understand database fundamentals, types, terminologies, entities and relationships, normalization up to 3NF and ER-models and develop database application in MS Access/SQL Server/Open Access creating tables and forms and generating queries and reports</p>	21
3	<ul style="list-style-type: none"> • Oct - Nov • 3 Weeks 	04/11/19	<p>Unit 3: CENTRAL PROCESSING UNIT</p> <p>3.1 Inside CPU</p> <ul style="list-style-type: none"> • Components of CPU • Registers • Buses <p>3.2CPU Operations</p> <ul style="list-style-type: none"> • Instructions Instruction Formats • Instruction Cycle 	<p>Standard 3: Computer Hardware and Software</p> <p>Theme : To have the knowledge of computer system and its operation utilizing various hardware Components and different types of software.</p>	21

			<ul style="list-style-type: none"> • CISC and RISC Architecture • INTEL and AMD Processors <p>Lab Outcome Unit 7: DATABASE FUNDAMENTALS</p> <ul style="list-style-type: none"> • Relational Schema • Transform E-R Diagram to Relational Schema. • Normalization of Relational Database 	<p>Standard 7:Database systems</p> <p>Theme: To understand database fundamentals, types, terminologies, entities and relationships, normalization up to 3NF and ER-models and develop database application in MS Access/SQL Server/Open Access creating tables and forms and generating queries and reports</p>	
4	<ul style="list-style-type: none"> • Nov • 2 Weeks 	1 /10/18	<p>Unit – 4: INSIDE SYSTEM UNIT</p> <ul style="list-style-type: none"> • Computer Casing and System Unit • CPU and System Unit • Computer Casings • Exploring the System Unit • Ports, Expansion Cards and Memory Chips • Ports and Their Types • Types of Expansion Cards • Memory Chips <p>Lab Outcome Unit 7: DATABASE FUNDAMENTALS</p> <ul style="list-style-type: none"> • Normalization of Relational Database 	<p>Standard 3: Computer Hardware and Software</p> <p>Theme : To have the knowledge of computer system and its operation utilizing various hardware Components and different types of software.</p> <p>Standard 7:Database systems</p> <p>Theme: To understand database fundamentals, types, terminologies, entities and relationships, normalization up to 3NF and ER-models and develop database application in MS Access/SQL Server/Open Access creating tables and forms and generating queries and reports.</p>	14

<p>5</p>	<ul style="list-style-type: none"> • Jan • 4 Weeks 	<p>02/01/19</p>	<p>Unit: 5 - NETWORK COMMUNICATION AND PROTOCOLS</p> <p>5.1 Network Communication</p> <ul style="list-style-type: none"> • Basic Network Communication Components • Modes of Network Communication • Communication Media • Communication Devices • Network Architecture • Types of Networks • Network Topologies <p>5. 2 Data Communication Standards</p> <ul style="list-style-type: none"> • Purpose of Communication Standards • OSI Model • Protocols and Devices Used at Various Layers of OSI Model <p>5.3 CP/IP</p> <ul style="list-style-type: none"> • TCP/IP Protocol • TCP/IP and OSI Model Comparison. • Circuit Switching and Packet Switching Networks • IP Addressing Schemes <p>Lab Outcome</p> <p>CHAPTER 8 DATABASE DEVELOPMENT</p> <p>8.1 Introduction</p> <ul style="list-style-type: none"> • Various Types of Database Management Systems • Selecting A Suitable DBMS • Creating and Saving an Access Database • Database Objects 	<p>Standard 4: Communication and computer network literacy</p> <p>Theme: To have knowledge of communication using transmission media and devices with various technologies, describe communication in different types of networks, know communication standards and identify commonly used protocols and technologies in wired and wireless networks</p> <p>Standard 7:Database systems</p> <p>Theme: To understand database fundamentals, types, terminologies, entities and relationships, normalization up to 3NF and ER-models and develop database application in MS Access/SQL Server/Open Access creating tables and forms and generating queries and reports.</p> <p>Standard 7:Database systems</p> <p>Theme: To understand database fundamentals, types, terminologies, entities and relationships, normalization up to 3NF and ER-models and develop database application in MS Access/SQL Server/Open Access creating tables and forms and generating queries and reports.</p>	<p>28</p>
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6	<ul style="list-style-type: none"> • Feb • 3 Weeks 	03/02/19	<p>Unit 6 – CHAPTER 6 WIRELESS COMMUNICATIONS</p> <p>6.1 Introduction</p> <ul style="list-style-type: none"> • Wireless Networks • Advantages and Disadvantages of Wireless Networks • Wireless Network Terminology Short and Long Distance Wireless Communications <p>6.2 Short Distance Wireless Communication</p> <ul style="list-style-type: none"> • Wi-Fi • Wi-Max • Bluetooth • Infra-Red <p>Lab Outcome</p> <p>CHAPTER 8 DATABASE DEVELOPMENT</p> <p>8. 3 Working with Forms</p> <ul style="list-style-type: none"> • Creating, Saving and Editing a Form • Different Form Views • Navigating Through Records in a Form • Using Form to Add, Modify and Delete Records • Using Form Controls 	<p>Standard 4: Communication and computer network literacy</p> <p>Theme:To have knowledge of communication using transmission media and devices with various technologies, describe communication in different types of networks, know communication standards and identify commonly used protocols and technologies in wired and wireless networks</p> <p>Standard 7:Database systems</p> <p>Theme: To understand database fundamentals, types, terminologies, entities and relationships, normalization up to 3NF and ER-models and develop database application in MS Access/SQL Server/Open Access creating tables and forms and generating queries and reports.</p>	21

Winter Break 14 Dec to 29 Dec 2018

6	<ul style="list-style-type: none"> • Feb - March • 2 Weeks 	30/12/18	<p>Unit 6 – CHAPTER 6 WIRELESS COMMUNICATIONS</p> <p>6.3 Long Distance Wireless Communication</p> <ul style="list-style-type: none"> • Cellular Communication • Global Positioning System <p>6.4 Mobile Device Communication</p> <ul style="list-style-type: none"> • Requirements of Mobile Communication • Features and Limitations of Mobile Communication Systems • Architecture for Communication Over Mobile Devices <p>Lab Outcome</p> <p>CHAPTER 8 DATABASE DEVELOPMENT</p> <p>8. 4 Working with Queries and Commands</p> <ul style="list-style-type: none"> • Different Ways of Creating, Saving and Editing Queries • Creating Queries <p>8. 5 Generating Reports</p> <ul style="list-style-type: none"> • Creating a Simple Report Using Report Wizard • Creating a Report Using a Query • Viewing and Printing Report 	<p>Standard 4: Communication and computer network literacy</p> <p>Theme:To have knowledge of communication using transmission media and devices with various technologies, describe communication in different types of networks, know communication standards and identify commonly used protocols and technologies in wired and wireless networks</p>	14
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Prepared By: Ms. **Asha K. Raju**