Scheme of work Computer science

Academic year: 2022-2023 Term: I School: Subject: Computer science

| Dates | Unit title | Lesson title + Evaluation | Learning objectives (copied or adapted from the syllabus depending on the bunch of lesson) + Key unit competence | Teaching methods & techniques + Evaluation procedures | Resources & References | Observations |
|-----------------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| Week1 26-30/9/2022 | Unit-1: Fundamental of laptop and portable devices | Portable devices and Laptop Smartphone, PDAs, tablets Laptop and portable devices cleaning procedures Evaluation | Knowledge and understanding Identify common uses of laptops, tablets and smart phones. Differentiate portable device and cell phones Explain the difference between laptops and desktop components Skills Describe the use and functions of laptops, tablets, PDAs and Smart phones. Compare and contrast desktop and laptop components. Configure power management on laptop Clean laptop and portable device Attitudes and values | Through group work, teacher provides a laptop, PDA, mobile cell phone and students will identify and describe parts of them Through group work, the teacher provides a desktop computer and laptop, students compare components. Through teacher's guidance students configure laptop power settings Through teacher's guidance students clean up laptop components | | |

| Key Unit Compo Week2 3-7/10/2022 Week3 10-14/10/2022 | etency: To be abl Unit-2: Complex data structure in algorithm | e to identify, use and maintain s • Two dimensional Arrays ✓ Declaration ✓ Accessing array elements ✓ Initialization • Abstract data structure o List o Queue o Stack o Tree • Search and Sorting using complex data structure (list ,Queue ,Stack ,Tree) | Be aware of possible Synchronization between PC, laptops, PDAs and smart phones afely laptops and other portable Knowledge and understanding Identify the use of two-dimension array in algorithm Identify and explain abstract data structures Identify appropriate steps to resolve a complex mathematical problem Skills Use Two-dimension array in algorithm Write an algorithm that require the use of complex data structures Design an algorithm and | Teacher will give exercise to learners related to 2-dimensional array The teacher will provide written algorithm and ask students to determine the different complex data types present in each algorithm Teacher will provide an exercise that require the use of complex data types and ask students to write the corresponding algorithm Teacher will present any | |
|------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Week4 17-21/10/2022 | | Apply algorithm to solve complex mathematical functions Evaluation | flowchart to resolve complex mathematical problem Attitudes and values • Appreciate the use of abstract data type in an algorithm | mathematical problem relate to Quadratic equation, Sum, Factorial, GCD etc and learners will write programs using complex data structure | |
| | | e to utilize complex data structur | | | |
| Week 5 24-28/10/2022 | Unit-3: Introduction to computer network | Computer Network Computer network concept and technology | Knowledge and understanding • Explain properties ,advantage /disadvantages and types of computer network | The teacher asks students to write an essay on computer networks importance in our daily life Teacher provides NIC card, UTP cat 6 cables | |

| Week6 31/10- 4/11/2022 Week 7 7-11/11/2022 Week8 14-18/11/2022 • Local Area network • Physical components • Network devices • Network transmission medium • IP address | Identify Network devices, UPT and Optical Fiber as guided media, Radio waves as unguided media Identify network concepts and technology Skills Identify properties ,advantage /disadvantages and types of computer network Differentiate network concepts and technology Connect USB modem to computer and install Configure Smartphone and Laptops for tethering to use as wireless hotspot Configure Wireless router for access control, DHCP Configure a computer as host for Internet Connection Sharing (ICS) | peripherals to the hosts and share files, folders and peripherals • The teacher presents different graphics representing different topologies and ask students to identify them |
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| WEEK 9 21-25/11/2022 | Data and device sharing Install and configure hub/switch and connect hosts to them Install and configure switch /Hub and make star and extended start topology Attitudes an d values Appreciate the use of NIC, network devices | | | | | |
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| Week10 28/11- 2/12/2022 | LAN topology Evaluation , network peripherals and connection between them | | | | | |
| Week 11 5-9/12/2022 | Revision | | | | | |
| Week 12 12-16/12/2022 | Examination period | | | | | |
| Week 13 19-23/12/2022 | Preparing school reports | | | | | |

Academic year: 2022-2023 Term: II School: Subject: Computer science

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|-----------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| Week 1 9-13/1/2023 Week 2 16-20/1/2023 | Unit-4: Introduction to Database | Database Concepts(4p) Data independence(3p) Database models(6p) Evaluation (1p) | Knowledge and understanding Describe database concepts, data independence, database models Skills Explain data independence, access level and user management Differentiate between logical independence and physical independence Differentiate among database models Attitudes and values Appreciate the role of database and its management Key Unit Competency: To be able to identify concepts of database and differentiate database models | Teachers will ask students to research and write an essay on database concepts and DBMS Learners discuss in group about differences between logical independence and physical independence | | |
| Week 3 | | | | | | |

| Week 3 23-27/1/2023 | Unit-5: Database design | Database design levels (3p) Database design steps(4p) | Knowledge and understanding Describe each levels of database design Describe meaning and steps of Normalization and various Normal form (1NF, 2NF,3NF, 4NF) Skills Identify important | Teacher and students will identify areas where database can be applied and students will design conceptual, logical and physicals levels of the database Students will do Individual exercises on Entity Relationship Diagram | |
|-----------------------------|-------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Week 4 30/1- 3/2/2023 | | • Types of Relationship (7p) | Entities and their Attributes from a given real life situation Draw an Entity and their associated Attributes Create a database with several table Create a | Student work on creating tables by defining structure, setting simple or composite primary key, creating relationship among tables, use foreign tables and foreign keys, enforcing | |
| Week 5 6-10/2/2023 | | | relationship between different tables • Create queries using Design View | referential integrity rule, create query using design view | |
| | | Database optimization through Normalization(6p) Evaluation (1p) | Have a good understanding on design levels to make a functional database Identity appropriate database for a given situation | | |

| Key Unit Competency: To be able to | to define conceptual, logical and physic | database design steps starting from Investigation up to Data base management Appreciate use of design view to graphically create new queries cal levels of a database with design of a database with d | atabase creation and manipulation |
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| 21-25/05/2018 | Dynamic memory allocation and its advantages over static memory allocation(2p) Pointers (2p) Operation on pointers(1p) Structure as user defined data type(1p) Use of structure(1p) Structure as user defined data type(2p) Use of structure(1p) Use members of a structure (1p) Pointer to structure (1p) Nesting structure Structure containing array, Array of structures, Structure containing other structure(1p) Evaluation (1p) | Knowledge and understanding Describe the use of pointers for dynamic memory allocation with graphical representation Describe the use of Structure as user defined data type and its memory Allocation Skills Define, declare and use pointers in C++ programming language Define, declare and use structures in C++ programming language Attitudes and values Appreciate the use of Pointers for dynamic memory allocation Appreciate the structure as user defined data type Read and interpret a simple C++ | Teacher will provide some written programs and ask students to identify pointers and structures used in those program Teacher will provide a program containing pointer and ask students to interpret it and give out its output Teacher will provide a program containing structure and ask students to interpret it and give out its output Teacher will ask students to write a program according to a given exercise requiring the use of pointers and structures and execute it |

| Week 7 20-24/2/2023 | Unit-7: Object Oriented Programming in C++ | Definition of Object Oriented Programming (1p) Basic concepts of Object Oriented Programming(2p) | Knowledge and understanding Describe basic Object Oriented Programming concepts Describe different object | Teacher will ask students to do research and write an essay on Object Oriented concepts and principles |
|-----------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| | | Encapsulation (2p) Defining Class in C++ (3p) Object (2p) | oriented syntaxes applied in C++ program Skills Explain basic Object Oriented Programming concept | Teacher will provide a written program and ask students to identify classes and objects used in the program Teacher will |
| Week 8 27/2- 3/3/2023 | | Objects in C++ (3p) Passing object to function(3p) Friend Function | Define a class with data members and some function members defined inside or outside class definition | Teacher will provide a program containing classes and objects and ask students to interpret it and give out its output |
| | | Polymorphism in C++ (2p) | Derive a new class from base class in various mode of derivation: public, protected, private Define constructor and destructor Create objects in main program from a class and access object data | Teacher will ask students to write a program according to a given exercise requiring the use of classes and objects and execute it |
| | | | and object functions, constructor and destructor and friend function | Teacher will give several C++ program exercises to students to implement |

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| Week 9 | | • Constructors in C++ (2p) | Attitudes and values | Constructor, | |
| 6-10/3/2023 | | • Destructors in C++ (2p) | • Appreciate the use of | Destructor and | |
| | | • Inheritance in C++ (2p) | classes and objects in | Inheritance | |
| | | • Evaluation (1p) | programming | | |
| Key Unit Com | petency: To be a | able to explain common concepts of Object | et Oriented Programming(OOP) |) and implement them in C++ | |
| 25-29/06/2018 | Unit-8: | Definitions | Knowledge and | | |
| | introduction | ✓ Graphical User | understanding | Using a printed out | |
| | to Visual | Interface, | | screenshot of the | |
| | basic | ✓ Desktop Application, | Describe Visual Basic | main interface of | |
| | | ✓ Event oriented | and its Integrated | Visual Basic | |
| | | programming using | development | environment allow | |
| | | Visual Basic | environment(IDE) | learners to identify | |
| | | Visual Basic Integrated | features | each component of | |
| | | Development Environment | • List components of | the Visual Basic | |
| | | (VB-IDE), | Visual basic IDE such as | interface | |
| | | | Form, Label, Input Box, | Teacher sets a | |
| | | | Radio Button, | practical work of | |
| | | | | designing a form | |
| | | | • Check Box, Command | using various controls such as | |
| | | | Button, DAO, ADO, | labels, textbox and | |
| | | | File and Folder, Image, Timer, Calendar, | labels, textbox and | |
| | | | ComboBox, ListBox | | |
| | | | control | | |
| | | | Control | | |
| | | | Skills | | |
| | | | W 1 W 1D | | |
| | | | Work in Visual Basic | | |
| | | | environment (open, | | |
| | | | write codes ,compile, close) | | |
| | | | Drag and drop control | | |
| | | | from a tool box on a | | |
| | | | form(Form designing) | | |
| | | | Write Visual Basic code | | |
| | | | on various events of | | |
| | | | controls dragged on | | |
| | | | form | | |
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| | | Run and debug a program in Visual Basic | | | | |
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| WEEK 10 | | Attitudes and values | | | | |
| 13-17/3/2023 | Visual Basic environment Visual Basic Controls Developing a User Interface with menus and Sub-menus using Visual Basic Evaluation | • Appreciate contribution of visual basic programming to create software with Graphical User Interface(GUI) over Command User Interface(CUI) | | | | |
| Key Unit Comp | etency: To be able to describe a Visual Basic Integrated | Development Environment (VI | B-IDE) and write a program in | Visual Basic. | | |
| WEEK11 20-24/3/2023 | Examination period | | | | | |
| WEEK12 27-31/3/2023 | Preparing school reports | | | | | |

Academic year: 2022-2023 Term: III School: Subject: Computer science

| Dates | Unit title | Lesson title + Evaluation | Learning objectives (copied or adapted from the syllabus depending on the bunch of lesson) + Key unit competence | Teaching methods & techniques + Evaluation procedures | Resources & References | Observations |
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| Week 1 17-21/4/2023 | Unit-9: Variables, Operators, Expressions and Control structures | Types of Visual Basic Data Variables | Explain the role and importance of variables in Visual Basic program Describe the use of operators and evaluate expression in Visual Basic program Explain the use of | With the help of a written program in Visual Basic, teacher asks students to list and describe variables and operators used in the program Teacher gives an exercise in Visual Basic requiring students to apply | | |
| Week 2 24-28/4/2023 | | Scope of a variable Operators | control structures in Visual Basic program Declare, Analyze and manipulate variables in Visual Basic program Use operators and evaluate expression in Visual Basic program Write a program in Visual Basic using different types of decision structures | operators and evaluate expression Students creates a simple arithmetic calculator using operators and expressions With the help of a written program containing control structure, teacher asks students to analyze the program and generate an output | | |

| | | of variables, operators, expressions and control structure in Visual Basic Program | | |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| tency: To be able Unit-10: Introduction o Java | Introduction(Definition and invention) Platforms(Java Runtime Environment-JRE, Java Development Kit-JDK) Advantages of JAVA | ns and control structure in a Vi Knowledge and understanding • Describe local and global identifiers, constants and variables in Java | Students write a program that prints a word, concatenated words, sentences and values of different variables | |
| | Compile and run a java | program Describe integer, floating point, character, Boolean, and object data | Write a program in which two integer values are declared and basic calculator. | |
| | EqualityNaming convention in JavaFlow controlEvaluation | Describe data structures or types (e.g., arrays, strings, linked lists, trees, hash tables, records, files, stacks, queues, sets, maps). | and basic calculator operators are used to print the sum, difference, product and division to the console Students execute a requested program using suggested key | |
| ĺ | nit-10: | Introduction (Definition and invention) Platforms(Java Runtime Environment-JRE, Java Development Kit-JDK) Advantages of JAVA Program. Compile and run a java Program Elements of Java source file Primitive Types Objects Equality Naming convention in Java Flow control | ency: To be able to use variables, operators, expressions and control structure in a Vi finit-10: Introduction of Java Init-10: Introduction(Definition and invention) Introduction of Java Init-10: Introduction(Definition and invention) Introduction Invention Introduction Invention Introduction Invention Introduction Invention Introduction(Definition and invention) Introduction Introduction Introduction Introduction(Definition and invention) Introduction Introduction(Definition and invention) Introduction(Definition and invention in Java Introduction Introduction Introduction Introduction(Definition and control structure in a Vi Introduction Introduction Introduction Introduction Introduction(Definition and invention in Java Introduction | Program Program Introduction (Definition and invention) Platforms(Java Runtime Environment-JRE, Java Development Kit-JDK) Compile and run a java Program Compile and run a java Program Program Compile and run a java Program Elements of Java source file Primitive Types Describe integer, floating point, character, Boolean, and object data types. Equality Naming convention in Java Flow control Evaluation Program Knowledge and understanding Describe local and global identifiers, constants and variables in Java program Describe integer, floating point, character, Boolean, and object data types. Describe data structures or types (e.g., arrays, strings, linked lists, trees, hash tables, records, files, stacks, queues, sets, maps). Program Students write a program that prints a word, concatenated words, sentences and variables to the console. Write a program in which two integer values are declared and basic calculator operators are used to print the sum, difference, product and division to the console Platforms(Java Runtime program that prints a word, concatenated words, sentences and variables in Java program Describe local and global identifiers, constants and variables in Java program Describe integer, floating point, character, Boolean, and object data types. Describe data structures or types (e.g., arrays, strings, linked lists, trees, hash tables, records, files, stacks, queues, sets, maps). |

| | kind of data types, | | |
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| | • Transform an methods, methods | | |
| | algorithm into a with arguments and | | |
| | java program print the result to | | |
| | the console | | |
| | Write, compile and Students write | | |
| | run a java program programs that | | |
| | contains flow | | |
| | Predict the output controls and print | | |
| | of a given program the result to the | | |
| | containing console | | |
| | sequential, • Students predict the | | |
| | conditional, or output of a given | | |
| | iteration statements. program or a | | |
| | Complete a section of program. | | |
| | program segment • Students evaluate | | |
| | for a specified errors in a given | | |
| | output given an section of code or | | |
| | incomplete program the entire program | | |
| | containing • Students use | | |
| | conditionals. EQUALITY(==)to | | |
| | Debug a program compare two | | |
| | containing an error objects to see if the | | |
| | involving variables reference | | |
| | conditional and the same object in | | |
| | iteration statements. memory. | | |
| | Attitudes and values | | |
| | Appreciate how | | |
| | Java program are | | |
| | strongly typed | | |
| Key Unit Competency: To be able to create, build and run a java console program | | | |

| Week 7 29/5- | Unit-11: OOP and | • Class vs. Objects | Knowledge and understanding | • Create a class with a | |
|-----------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 2/6/2023 | Java | Constructor"new" and "this" | Describe instance, class, and local (method) variables | method that print a given message and create another with main method to instantiate objects and call the | |
| Week 8 5-9/6/2023 | | Reference variable Arrays vs. Objects Inheritance Extends a class Casting primitive and Objects Access Modifiers (Public, protected, private, package-private) | in an object- oriented program. • Describe public and private • Describe key features of object- oriented programs (i.e., encapsulation, inheritance, and polymorphism). Skills • Create and | Objects and call the method of first class to print the message. Student extends a class with nother class and calls the method objects of parent and child classes. Override the method in child class and print again result of two classes objects. Create a class that have more than one properties, encapsulate these properties by creating getters and setters, constructors then create a class with main method to instantiate the first class using constructor and use getter and setter to access values of class properties | |
| Week 9 12-16/6/2023 | | Overriding methods and variables, final and super keywords ✓ Encapsulation[Getter and setter) ✓ Abstract classes and methods Evaluation | instantiate a class using main method. • Use constructor to initialize instance variable of a given object • Debug a program containing an error involving arrays, objects Attitudes and values • Appreciate the use of objects in programming languages. | | |
| Key Unit Competency: To be able to use objects to manipulate data in Java program | | | | | |

| Week 10 26-30/6/2023 | Unit-12: IO and Java | IO streams InputStream and OutputStreamFileStreams | Knowledge and understanding Describe streams, readers and writers Describe the importance of streams, readers and writers in manipulation of files Skills Read, manipulate and display user inputs to the console . Catch Input/Output Exceptions while reading data to the console. Read and display data of text file Attitudes and values | Students write a program that prompt their name, read it from the console, and then display it in a message Create a program which allows to input two values (x and y) and then calculate the sum, difference, product and division Students write a program which evaluate prime numbers and quit if a specific letter is pressed. Students build a program that read a .text file and display the content to the console. | |
|-----------------------------------------|---------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Week 11 3-7/7/2023 | | ReadersEvaluation | Appreciate the manipulation user's inputs and of files using streams, readers and writers | | |
| Key Unit Comp | petency : To be ab | le to use streams, readers and writers i | n Java | | |
| Week12 | Examinatio | | | | |
| 10-14-7/2023 Week 13 17-21/7/2023 | Preparing s | chool reports | | | |