

			UNIT 3 OBJECT ORIENTED PROGRAMMING USING C++ <ul style="list-style-type: none"> • Introduction • C++ Constants and Variables • Input/ Output Handling 	understand the concept of Object Oriented Programming (OOP)	
2	<ul style="list-style-type: none"> • Aug- Oct • 3 Weeks 	27/05/18	UNIT 2 SYSTEM DEVELOPMENT LIFE CYCLE 2.1. System Development Life Cycle <ul style="list-style-type: none"> • System • System Development Life Cycle (SDLC) • Stakeholders and their role • Planning • Feasibility • Analysis • Requirement Engineering • Design (Algorithm, Flow Chart, Pseudo code) Coding • Testing /verification • Deployment/Implementation • Maintenance/Support • Role of Management in SDLC • Role of Project Manager in SDLC • Role of System Analyst in SDLC • Role of Programmer in SDLC • Role of Software Tester in SDLC • Role of Customer in SDLC 	Standard– 9 SYSTEM DEVELOPMENT Theme -To describe SDLC, its importance and objectives covering various terminologies, Management terms, process models and risk analysis and management.	21

			LAB OUTCOME	LAB OUTCOME	
			<p style="text-align: center;">UNIT 3 OBJECT ORIENTED PROGRAMMING USING C++</p> <ul style="list-style-type: none"> • Input/ Output Handling • Operators in C++ 	<p>Standard– 6 DEVELOPING PROGRAMMING SKILLS</p> <p>Theme-To write code to solve problems using high level programming languages and understand the concept of Object Oriented Programming (OOP)</p>	
<ul style="list-style-type: none"> • October • 3 Weeks 	07/10/2018	<p>UNIT 3 OBJECT ORIENTED PROGRAMMING USING C++</p> <p>3.1. Introduction</p> <ul style="list-style-type: none"> • Program • Header files and reserved words • Structure of a C++ program • Use of a statement terminator (;) • Purpose of comments and their syntax <p>3.2. C++ Constants and Variables</p> <ul style="list-style-type: none"> • Constant and variable • Rules for specifying variable names • Data types offered by C++ • Constant qualifier – const • process of declaring and initializing variables • type casting <p>3.3. Input/ Output Handling</p> <ul style="list-style-type: none"> • the use of cout statement for displaying output on the screen 	<p>Standard– 6 DEVELOPING PROGRAMMING SKILLS</p> <p>Theme-To write code to solve problems using high level programming languages and understand the concept of Object Oriented Programming (OOP)</p>	21	

			<ul style="list-style-type: none"> • the use of cin statement to get input from the keyboard during execution of the program • getch(), gets() and puts() functions • escape sequence • use of the escape sequences using programming examples • Most commonly used I/O handling functions • Use manipulators endl and setw <p>3.4. Operators in C++</p> <ul style="list-style-type: none"> • Assignment, Arithmetic, Arithmetic assignment, Increment and decrement, Relational, Logical and Ternary operators and show their use with examples • unary, binary and ternary operators • an expression • the order of precedence of operators. • compound expression 		
	<ul style="list-style-type: none"> • November • 2 Weeks 	04/11/2018	UNIT 4 CONTROL STRUCTURES 4.1. Decisions <ul style="list-style-type: none"> • Decision statements • Nested if 	Standard– 6 DEVELOPING PROGRAMMING SKILLS	14

			<ul style="list-style-type: none"> • Break statement and exit function <p>4.2. Loops</p> <ul style="list-style-type: none"> • Looping structures: • Continue statement • Nested loop 	<p>Theme-To write code to solve problems using high level programming languages and understand the concept of Object Oriented Programming (OOP)</p>	
<ul style="list-style-type: none"> • November • 2 Weeks 	18/11/2018	<p>UNIT 5 ARRAYS AND STRINGS</p> <p>5.1. Introduction</p> <ul style="list-style-type: none"> • Array • Array Size • Array Index • Initialize an array • Access and write at an index in an array • Traverse an array using all loop structures • Use the size of () function to find the size of an array <p>5.2. Two dimensional Arrays</p> <ul style="list-style-type: none"> • Two dimensional array • Initialize a two dimensional array of different sizes and data types • Access and write at an index in a two dimensional array <p>5.3. Strings</p> <ul style="list-style-type: none"> • string 	<p>Standard– 6 DEVELOPING PROGRAMMING SKILLS</p> <p>Theme-To write code to solve problems using high level programming languages and understand the concept of Object Oriented Programming (OOP)</p>	14	

			<ul style="list-style-type: none"> Techniques of initializing a string String functions 		
<ul style="list-style-type: none"> January 2 Weeks 	02/01/2019	UNIT 6 FUNCTIONS <ol style="list-style-type: none"> 1. Functions <ul style="list-style-type: none"> Function Advantages of using function Signature of function Function prototype Function definition Function call Local, global, and static variables Formal and actual Local and global functions Inline functions 2. Passing arguments and returning values <ul style="list-style-type: none"> Passing arguments Default arguments Return statement 3. Function overloading <ul style="list-style-type: none"> Function overloading Its Advantages and disadvantages Use of Function overloading 	Standard – 6 DEVELOPING PROGRAMMING SKILLS Theme -To write code to solve problems using high level programming languages and understand the concept of Object Oriented Programming(OOP)	14	
<ul style="list-style-type: none"> January 2 Weeks 	20/01/2019	UNIT 7 POINTERS <ul style="list-style-type: none"> Pointers Memory addresses 	Standard – 6 DEVELOPING PROGRAMMING SKILLS	14	

			<ul style="list-style-type: none"> Reference operator (&) Dereference operator (*) Pointer types Initialize the pointers 	Theme -To write code to solve problems using high level programming languages and understand the concept of Object Oriented Programming(OOP)	
<ul style="list-style-type: none"> February 2 Weeks 	03/02/2019	UNIT 8 OBJECTS AND CLASSES 8.1. Classes <ul style="list-style-type: none"> class and object Member of a class Access specifierD Data hiding Constructor and destructor Constructor overloading Object declaration Inheritance Polymorphism 	Standard – 6 DEVELOPING PROGRAMMING SKILLS Theme -To write code to solve problems using high level programming languages and understand the concept of Object Oriented Programming(OOP)	14	
<ul style="list-style-type: none"> February 2 weeks 	03/03/2018	UNIT 9 FILE HANDLING <ul style="list-style-type: none"> File Handling Binary and text file Open the file Modes of opening file Concept of - BOF, EOF Stream - Single character, String 	Standard – 6 DEVELOPING PROGRAMMING SKILLS Theme -To write code to solve problems using high level programming languages and understand the concept of Object Oriented Programming(OOP)	14	

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