

<b>Discipline:</b> C.E&IOT <b>Sem:</b> 3rd		Name of the Teaching faculty: Mrs. Manik Manjari Khatua
<b>Subject :</b> PROGRAMMING WITH 'C++'		No. of periods/Week: 03 No of weeks :15 Total no of periods:45
Week	<b>Class</b> Day	Topics to be covered
1 <sup>st</sup>	1 <sup>st</sup>	Introduction to object-oriented programming, user defined types
	2 <sup>nd</sup>	Structures, unions, polymorphism, encapsulation
	3 <sup>rd</sup>	Getting started with C++ syntax
2 <sup>nd</sup>	1 <sup>st</sup>	Data- type, variables
	2 <sup>nd</sup>	Strings, functions
	3 <sup>rd</sup>	Default values in functions
3 <sup>rd</sup>	1 <sup>st</sup>	Recursion
	2 <sup>nd</sup>	Namespaces,
	3 <sup>rd</sup>	Operators
4 <sup>th</sup>	1 <sup>st</sup>	Flow control
	2 <sup>nd</sup>	Arrays
	3 <sup>rd</sup>	Pointers
5 <sup>th</sup>	1 <sup>st</sup>	Abstraction mechanism: Classes, private, public
	2 <sup>nd</sup>	Constructors, destructors
	3 <sup>rd</sup>	Member data, member functions
6 <sup>th</sup>	1 <sup>st</sup>	Inline function, friend functions,
	2 <sup>nd</sup>	Static members, and references.
	3 <sup>rd</sup>	Inheritance: Class hierarchy, derived classes
7 <sup>th</sup>	1 <sup>st</sup>	Single inheritance, multiple, multilevel,
	2 <sup>nd</sup>	Hybrid inheritance,
	3 <sup>rd</sup>	Role of virtual base class, constructor
8 <sup>th</sup>	1 <sup>st</sup>	Constructor and destructor execution
	2 <sup>nd</sup>	Constructor and destructor execution
	3 <sup>rd</sup>	Polymorphism: Binding, Static binding, Dynamic binding, Static polymorphism: Function Overloading, Ambiguity in function overloading, Dynamic polymorphism: Base class pointer, object slicing, late binding, method overriding with virtual functions, pure virtual functions, abstract classes
9 <sup>th</sup>	1 <sup>st</sup>	Dynamic binding, Static polymorphism

	2 <sup>nd</sup>	Function Overloading, Ambiguity in function overloading
	3 <sup>rd</sup>	Dynamic polymorphism: Base class pointer
10 <sup>th</sup>	1 <sup>st</sup>	Object slicing, late binding
	2 <sup>nd</sup>	Method overriding with virtual functions
	3 <sup>rd</sup>	pure virtual functions
11 <sup>th</sup>	1 <sup>st</sup>	Abstract classes
	2 <sup>nd</sup>	Abstract classes
	3 <sup>rd</sup>	Operator Overloading: This pointer, applications of this pointer
12 <sup>th</sup>	1 <sup>st</sup>	This pointer, applications of this pointer,
	2 <sup>nd</sup>	Operator function ,member and non-member operator function
	3 <sup>rd</sup>	Operator function ,member and non-member operator function
13 <sup>th</sup>	1 <sup>st</sup>	Operator function ,member and non-member operator function
	2 <sup>nd</sup>	Operator function ,member and non-member operator function
	3 <sup>rd</sup>	Operator overloading, I/O operators.
14 <sup>th</sup>	1 <sup>st</sup>	Operator overloading, I/O operators.
	2 <sup>nd</sup>	Operator overloading, I/O operators.
	3 <sup>rd</sup>	Exception handling: Try, throw, and catch
15 <sup>th</sup>	1 <sup>st</sup>	Exceptions and derived classes
	2 <sup>nd</sup>	Function exception declaration
	3 <sup>rd</sup>	Unexpected exceptions

Signature of Faculty

Signature of H.O.D