JHARKHAND Rai University
UGC RECOGNISED UNIVERSITY
ACCREDITED BY NAAC

Lesson Plan & Tracking

Programe : BCA | **Session : 2021-2024** | **Year : IInd** | **Sem: IIIrd**

Course: Object Oriented Programming with C++ (3C.201)

Name of the Faculty: Kumar Amrendra | **Commencement Date: 29.08.2022** | **Date of Closure: 30.12.2022**

Lecture No.	Week	Unit	Topics to be Covered	Blended Mode			Date	Duration	Tracking of Lectures	Related Course Outcome	Signature of Faculty	Signature of HoD	Remarks (if any)
				ICT Tool/Platform/ LMS	Resources	Activity							
1		UNIT - I	History & features: It's need & requirement										
2	1	UNIT - I	procedure oriented programming versus object oriented programming										
3		UNIT - I	basic concepts object oriented programming, object oriented languages.										
4		UNIT - I	Beginning with C++: Concepts & structure of C++programming, concepts of structure										
5	2	UNIT - I	Objects & classes: Specifying a class, Defining member functions										
6		UNIT - I	Access specifiers (public, private), Arrays within a class, Creating objects, memory allocation for objects										
7		UNIT - I	static data & member function, Arrays of objects, objects as function argument.										
8	3	UNIT - II	Constructors and Destructors: Concept of Constructor, Types of constructors (Default, Parameterized,copy,)										
9		UNIT - II	Overloaded Constructors (Multiple Constructor), Construct or with default argument, Destructors										
10		UNIT - II	Function overloading										
11	4	UNIT - II	Operator overloading (overloading unary & binary operators), rules for overloading operators										
12		UNIT - II	Inheritance: Concepts of inheritance, Derived classes										
13		UNIT - II	Member declaration (Protected), Types of inheritance (Single, multilevel, multiple, hierarchical, Hybrid inheritance)										

14	5	UNIT - II	Virtual base classes, Abstract classes, Constructors in derived classes, Member classes.										
15		UNIT - III	Pointers in C++: Concepts of pointer (Pointer declaration, pointer operator, address operator, pointer expressions, and pointer arithmetic)										
16	6	UNIT - III	Pointers in C++: Concepts of pointer (Pointer declaration, pointer operator, address operator, pointer expressions, and pointer arithmetic)										
17		UNIT - III	Pointers & functions (Call by value, call by reference, pointer to functions, passing function to another function)										
18		UNIT - III	Pointers in arrays (Searching, insertion & deletion)										
19	7	UNIT - III	Pointers in arrays (Searching, insertion & deletion)										
20		UNIT - III	Pointers to string (Searching, finding length, comparison, concatenation, reverse)										
21		UNIT - III	Pointers & objects (Pointers to objects, this pointer, and pointer to derived classes)										
22	8	UNIT - IV	Polymorphism: Concepts of polymorphism, types of polymorphism										
23		UNIT - IV	function Overloading &function overriding										
24		UNIT - IV	Virtual function, Static & dynamic binding										
25	9	UNIT - IV	Virtual function, Static & dynamic binding										
26		UNIT - IV	Basic function of I/O system basics & File Processing: Stream classes										
27		UNIT - IV	using formatted & unformatted functions, using manipulator to format I/O										
28	10	UNIT - IV	Basics of file system, opening & closing a file										
29		UNIT - IV	reading & writing character from a file(get() ,put(), getline (), write(), Command line arguments										
30		UNIT - IV	reading & writing character from a file(get() ,put(), getline (), write(), Command line arguments										
31	11		Model Paper Discussion										
32			Model Paper Discussion										

33			Model Paper Discussion										
34	12		Revision										
35			Revision										
36			Revision										