



Advance Programming Language

Second Year – First Semester

Asst. Prof. Ashish Sharma

Academic Year: 2023-2024

Course Book





S. No.	Information	Details
1.	Course Name	Advance Programming Language (with C++)
2.	Course Code	IT201APL
3.	Lecturer In-charge	Ashish Sharma
4.	College/Department	ECS/Information Technology
5.	Contact Information	E-mail: ashish.sharma@lfu.edu.krd Mobile No.: 0964-7507231261
6.	Time (in hours) per Week	Theory: 02 Hours Practical: 02 Hours
7.	Office Hours	Saturday to Wednesday
8.	Teacher's Academic Profile	Master of Technology in Computer Science (CS) Degree passed in year 2012 from Jamia Hamdard University Campus, New Delhi, India with 08.09 CGPA. (Division: First) Master of Computer Applications passed in the year 2007 from MIET, Meerut, UP, India is affiliated to UP Technical University Lucknow, India. (Division: First) Bachelor of Science passed in the year 2003 from NAS PG Degree College, Meerut, UP, India affiliated to C.C.S. University, Meerut, UP, India with (Mathematics, Optical Instrumentation and Physics). (Division: Second) To enhance my knowledge, I have attended many seminars and conferences on technically good research topics during my whole career and study yet. Also I work on, to minimize the gap technically of our society from technological aspects and physical aspects.
9.	Academic Title	Assistant Professor
10.	Keywords	Program Architecture, C++ Program Structure, OOPs Implementation
11.	 Course Overview: This course is designed to impart knowledge on the object-oriented concepts and implementation using C++ with examples and applications. Get an idea of Class and objects. Overload several operators, functions and constructors. Inherit the properties from the base class. 	





12.	 Aims & Objective: The students are: Able to design program for any application using classes and objects. Able to construct program using operator overloading and functions using constructors for any requirement Able to decompose different classes and use parent class properties in another class, it saves programmer's effort also line of code. Able to design applications using data storage for long time in the form of files. There are many different types of files as per requirement. 			
13.	 Course Requirement: All students should attend lectures carefully. Lecture delivery may be On-line or Off-line. All students should attend on Classroom Tests, Discussions, their Assignments, and Examinations such as Mid-term and Final. 			
14.	Teaching and Learning Method: Online Video Lectures E-learning Methods White Board PPT Presentation Team Work Project Show (Practical Session) Assignments			
15.	Assessment Scheme: • 5 % Assignments • 10 % Class Tests and Quizzes • 25 % Mid-term Examination • 60 % Final Examination			
16.	 Students Learning Outcome: Able to think about how to plan for programming to develop a new program or modify an existing program. Able to know about how to analyze, design and develop an appropriate program. Able to know about how to use syntactical and logical techniques for developing a program. Able to know about how to work on software modules development. Able to know about how to develop a proper documentary of a system for further use or study. 			
17.	 Course Reading List and References Book: Herbert Schildt- C++ The complete Reference- Tata McGraw Hill, Third Edition2001 Book: E Balagurusamy- Object Oriented Programming C++- Tata McGraw Hill 			
18.	Course Content			





Course Content

Week	Lecture Date	No. of Hours	Topics
1.	11-09-22 15-09-22	3	Introduction about C++ Programming Language
2.	18-09-22 22-09-22	3	Some important basic terms of C++ Programming: Identifiers, Constant, Preprocessor Directives, Variables, Keywords, Statements, Comments
3.	25-09-22 29-09-22	3	Operators, Data-types, User-defined Datatypes
4.	02-10-22 06-10-22	3	Comma Operator, Jump Statement-I
5.	09-10-22 13-10-22	3	Jump Statement-II
6.	16-10-22 20-10-22	3	Selection Statement
7.	23-10-22 27-10-22	3	C++ Functions-I
8.	30-10-22 03-11-22	3	C++ Functions-II
9.	06-11-22 10-11-22	3	MIDTERM
10.	13-11-22 17-11-22	3	Inline Function, Recursion, Difference between Recursion and Iteration in C++
11.	20-11-22 24-11-22	3	Arrays-I
12.	27-11-22 01-12-22	3	Arrays-II
13.	04-12-22 08-12-22	3	Strings, Types of Strings, The String Class in C++
14.	11-12-22 15-12-22	3	Namespace in C++
15.	18-12-22 22-12-22		Final Examination





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	Examinations:	
	• Compositional:	
	In this type of exam, the questions usually start with explain (How? / What? /Why?)	
	With their typical answers. (Example should be provided)	
	• True or False:	
	In this type of exam, a short sentence about a specific subject will be comment on the trueness or falseness of this particular sentence. (Example should be provided)	
19.	Multiple Choices:	
	In this type of exam there will be a number of phrases next or below a statement, students will match the correct phrase. (Example should be provided).	
	• Fill blanks:	
	The description may be given and ask.	
	• Matching:	
	A number of questions in one side and their answers in another side will be presented. It will ask the students to match the questions with correct answers.	
20.	Notes:	