



**St. JOSEPH'S DEGREE COLLEGE**  
**Sunkesula Road, Kurnool – 518 004 A.P.**  
(Affiliated to Rayalaseema University, Kurnool)

**ADD ON COURSE ON**  
**“C++ PROGRAMMING”**

**Academic Year – 2024-2025**

**COURSE CO-ORDINATORS:**

1. Mr. K. Amarnath
2. Mr. G. Penchalaiah Babu
3. Mrs. B. Manju Bhargavi
4. Mrs. N. Rajini Kiranmai

## **CIRCULAR**

Date: 29-07-2024.

Dear students, this is to inform you that the Dept. of Computer Science is going to conduct add-on course on "Programming with C++ " from 02 Aug 2024. This course is very helpful for the students to develop their coding skills. All the II-year B.Com & BBA students are requested to join.

Dept. of Computer Science,  
St. Joseph's Degree College.

## **COURSE OUTLINE**

Instructor: Mr. K.Amarnath & Mr. G.Penchalaiah Babu

Class Section: II B.Com III Semester Students

Class Time: Monday To Saturday 3.00 PM to 5.00 PM.

Duration: 15 Days.

E-Mail: [sjdc.cs@gmail.com](mailto:sjdc.cs@gmail.com).

Start Day: 02-08-2024

End Day: 04-09-2024

College website: [www.sjcknl.edu.in](http://www.sjcknl.edu.in)

## **COURSE DESCRIPTION:**

C++ is an object-oriented programming (OOP) language used for creating large-scale applications. It is a superset of the C language. It can be found in today's operating systems, Graphical User Interfaces and embedded systems.

C++ allows software developers to define their own data types and manipulate them using functions and methods. It also allows low-level programming and provides access to memory, enabling fast and efficient execution of code.

It also supports generic programming using templates, which let code be written in a generic form and reused for different data types. This course is helpful for the students to upskill and advance their careers.

**OBJECTIVES:** This course provides an insight to acquire fundamental understanding of the OOPs concepts, classes, objects, functions. It has been designed with a uniform structured series of modules and makes programming easier, more efficient.

- The Basic Programming and OOPs concepts.
- Creating C++ programs.
- Tokens, Expressions and Control Structures in C++
- Arranging same data systematically with arrays.
- Classes and Objects in C++
- Constructors and Destructors in C++
- Inheritance Concepts in C++

## **SYLLABUS**

### **Module 1: Introduction to Object Oriented programming language - Duration: 2 hrs**

- Objective: To understand the importance of Object-Oriented language in real world.

### **Module 2: POOP & OOPL– Duration: 12 hrs**

This module starts to Introduction to POOP & OOPL

- Introduction to programming languages, translators.
- Difference between procedural and object-oriented programming, OOPs concepts.
- Structure of C++ with example program. Write, compile and execution of C++ programs.

### **Module 3: Data types and operators. Duration: 8 hrs**

This module starts with Data types and operators

- Practical lab work. Class, object creation and accessing variables, methods.
- Data types of C++.
- Operators of C++,
- Practical lab

### **Module 4: Control Statement & Function in C++ - Duration: 6 hrs**

This module starts with Branching Statement and looping Statement.

- Branching statements practical lab.
- Looping and jumping statements practical lab.
- Functions, categories of functions, scope of variables in C++.

### **Module 5: Function and Inheritance in C++ - Duration: 2 hrs**

In this module, you will learn that inline function and inheritance.

- ♣ Default arguments, recursion – practical lab.
- ♣ Inline function, function overloading – practical lab.
- ♣ Access modifiers in C++, Inheritance – single, multilevel inheritance - practical lab.
- ♣ Multiple, Hierarchical, Hybrid inheritance – practical lab.
- ♣ Constructor and Destructor – practical lab.

S.no	Date	Topics Covered
1	02-08-2024	Introduction to Programming Languages, Translators, Compiler, Interpreter, Difference b/n C & C++
2	03-08-2024	Structure of C++ with examples, Object Oriented Programming(OOPs) Concepts
3	05-08-2024	C++ Operators with example programs
4	06-08-2024	Branching Statements, Switch statement
5	07-08-2024	Iterative and Jumping Statements
6	08-08-2024	Programs on Class and Objects
7	09-08-2024	Introduction to Function and its categories
8	12-08-2024	Scope of Variables and Default Arguments in C++
9	13-08-2024	Inline function with example programs
10	14-08-2024	Function Overloading with example programs
11	16-08-2024	Inheritance and its types
12	17-08-2024	Programs on types of inheritance
13	19-08-2024	Constructor and its types with examples
14	03-09-2024	Destructor and its types with examples
15	04-09-2024	Overview

### **OUTCOME:**

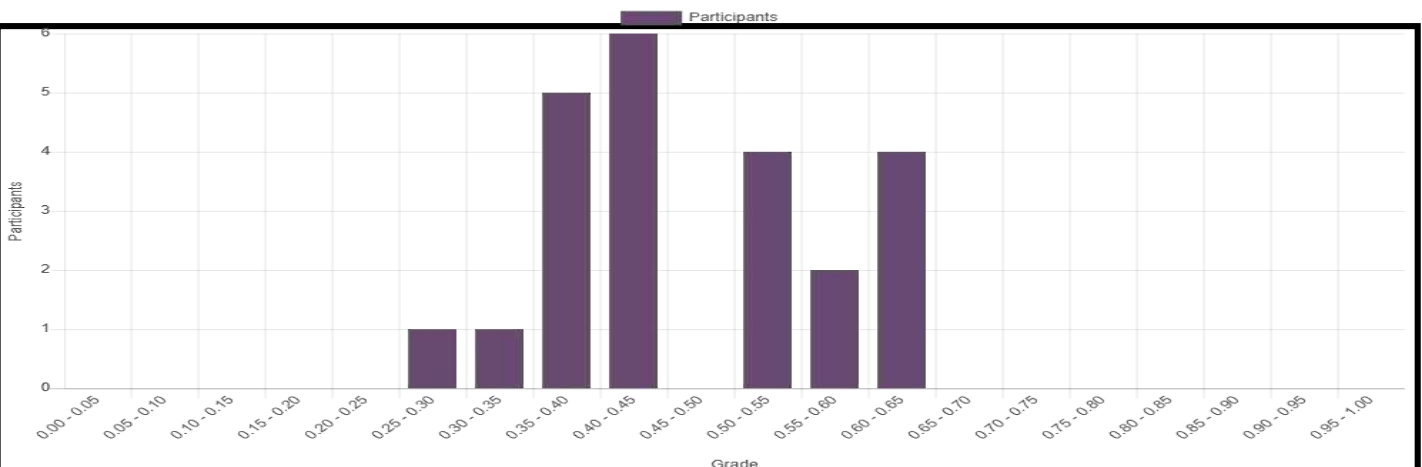
- Able to differentiate structure-oriented programming and object-oriented programming.
- Able to understand and apply various object-oriented features.
- Able to write, compile and debug programs in C++ language.
- Able to know concepts in operator overloading, function overloading & polymorphism.
- Able to design programs involving constructors, destructors.
- Able to reuse of code using inheritance.

**SCHEME OF VALUATION AND PATTERN OF QUESTION PAPER**  
**CONDUCTED MULTIPLE CHOICE BASED QUESTIONS**

**ONLINE EXAMINATION**

<b>Time : 30 minutes</b>		<b>Max. Marks : 25</b>		<b>Min. Marks to Pass: 10</b>
<b>S.No.</b>	<b>Type of the Questions</b>	<b>No.Of Questions</b>	<b>Marks Per Question</b>	<b>Total Marks</b>
1	Multiple Questions	25	1	25

<b>Surname</b>	<b>First name</b>	<b>Email address</b>	<b>Grade/10</b>
Navaneetha	Eepuri	navaneethaepuri020@gmail.com	5.2
Kavya	Kunigiri	k13989945@gmail.com	5.2
Sireesha	Kuruva	ksiri8919@gmail.com	5.2
Pallavi	Mondilla	pmondila@gmail.com	4.4
Jyothika	Rangesudhe	jyothijyothika81@gmail.com	3.6
Manju	Jaggarla	jshardha959@gmail.com	4.4
Praneetha	Kattela	praneetha859@gmail.com	3.6
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Lokanath	S	telugulokulokanathlokanath361@gmail.com	4
Kuruva	Anuradha	eranna3850@gmail.com	5.6
Chilukuru	Bhavana	chilukurubhavana2004@gmail.com	3.2
Shaik	Md Anas	anuanasmam@gmail.com	6
Kinnera	Ashwini	kinneraashwini@gmail.com	3.6
<b>Overall average</b>			<b>4.6</b>



## ATTENDANCE

St. Joseph's Degree College, Surveskula Road, Kurnool					August - 2024														Sep-24				
Add on course on Programming in C++ for Commerce students( III-sem Bcom & BBA) 2024 -25																							
Class	Sno	Name	Phone no	Email id	02	03	05	06	07	08	09	10	12	13	14	16	17	19	20	21	22	23	24
PCom	1	Dudhala Prasanna	9886000001	dudhala.prasanna@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	2	Vadda Ravathi	9886000002	vadda.ravathi@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	3	Tyjala Sampath	9886000003	tyjala.sampath@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	4	Kattala Divyashree	9886000004	kattala.divyashree@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	5	Metala Sri Preethi	9886000005	metala.sripreethi@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	6	Telugu Akshini	9886000006	telugu.akshini@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	7	Billa Malini	9886000007	billa.malini@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	8	Billi Kavitha	9886000008	billi.kavitha@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	9	Jaggala Manju	9886000009	jaggala.manju@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	10	Repuri Navaneetha	9886000010	repuri.navaneetha@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	11	Kuruvu Suresha	9886000011	kuruvu.suresha@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	12	Kurugula Ananya	9886000012	kurugula.ananya@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	13	Mandali Pallavi	9886000013	mandali.pallavi@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	14	Mallappa Bhargavi	9886000014	mallappa.bhargavi@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	15	Syd Ananya	9886000015	syd.ananya@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	16	Arinacharla Akshita	9886000016	arinacharla.akshita@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	17	Belli Sanjana	9886000017	belli.sanjana@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	18	Kuruvu Anuradha	9886000018	kuruvu.anuradha@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	19	N. Navya	9886000019	n.navya@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	20	K. Rajitha	9886000020	k.rajitha@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	21	Sampath Kavya	9886000021	sampath.kavya@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	22	Shakti Suman Basha	9886000022	shakti.sumanbasha@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	23	Syd Ananya Divyashree	9886000023	syd.ananyadivyashree@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	24	T. Chandra Kumar	9886000024	t.chandra.kumar@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	25	P. Sri Chandra	9886000025	p.srichandra@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	26	S. Ananya	9886000026	s.ananya@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	27	Telugu Akshani	9886000027	telugu.akshani@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	28	G. Sathish Kumar	9886000028	g.sathishkumar@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	29	A. Naveen Kumar	9886000029	a.naveenkumar@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
PCom	30	D. Malik Basha	9886000030	d.malickbasha@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

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**Chaitany**  
 HOD  
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## GALLERY



## FEEDBACK

Please indicate your satisfaction level for the following aspects of the course>

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