



**St. JOSEPH'S DEGREE COLLEGE**  
**SUNKESULA ROAD**  
**KURNOOL**

**Addon 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**

## Request Letter

25-07-2024,  
Kurnool.

To  
The Chairman,  
Internal Quality Assurance Cell,  
St.Joseph's Degree College,  
Kurnool.

Respected Madam/Sir,

Sub: - Request for permission to conduct Add-On Course for II B.Com, III Semester Students - Reg

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All the Third semester B.Com students have to be aware of Programming in C++ subject, as it is helpful for the students in near future. Keeping this in mind Department of Computer Science is planning to conduct Add-on Course on C++ Programming which is one of the most commonly used programming languages in Real Time Environment.

As a part of this course the students will be given insight knowledge and this object-oriented programming is to create an object, build code, that has certain properties and methods.

I request to consider the proposal and permit to conduct the course.

### Course Coordinators :

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

With Regards,  
**(S.Latha Rani)**  
Head of the Department,  
Department of Computer Science

Copy to Principal.



# St. Joseph's Degree College

Sunkesula Road, Kurnool-518004  
(Affiliated to Rayalaseema University, Kurnool, A.P.)

## 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++ Programing Language:**

C++ is an object-oriented programming (OOP) language used for creating large-scale applications. It is a superset of the C language. It is 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.

### **Course 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**

## Programming in C++

### **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.

<b>S.no</b>	<b>Date</b>	<b>Topics Covered</b>
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



## Attendance sheet of the Students:

St. Joseph's Degree College, Sunkesula Road, Kurnool					Add on course on Programming in C++ for Commerce students( III-sem Bcom & BBA) 2024 -25																	
Class	Sno	Sname	Phone.no	Email id	August - 2024															Sep-24		
					02	03	05	06	07	08	09	12	13	14	16	17	19	03	04			
BCom	1	Dudukula Pravallika	8328830307	dudukulpravallika@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	2	Vadde Ravathi	988563863	vadde.ravathi678@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	3	Jyothi Ranganth	6301568565	jyothi.jyothiika81@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	4	Kattala Praneeha	8309939924	praneeha859@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	5	Mekalasa Preethi	9849877976	preethi.20102005@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	6	Telugu Ashwini	9550896886	ashwini20@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	7	Balla Malini	9818938883	malini2019@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	8	Balli Kavitha	9981637850	kavithaballi@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	9	Jaggala Manju	6304667045	jaggala.05@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	10	Eepuri Navaneetha	9505774212	navaneetha.eepuri@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	11	Kuruva Sivasha	888358166	sivasha2919@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	12	Kunigaitavya	981800445	kunigaitavya20@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	13	Mondilla Pallavi	9346718089	mondilla@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	14	Malleppu Poojitha	9818713820	poojithamalleppu5@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	15	Syd Sameera	9290744972	sydsameera872@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	16	Amarachinta Akhila	9199035814	amarachintaakhila23716@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	17	Bathi Sanjany	8181866485	sanjany28@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	18	Kuruva Anusiddha	9866566085	anusiddha28@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	19	N. Navya	7708026166	navyamallanavya@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	20	K Rajitha	9951471878	rajithakayalakonda@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	21	Rampure Kavya Sree	9177184616	rampurekavyasree@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	22	Shaik Rehan Basha	897411683	rehanbasha@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	23	Syd. Adnaan Darmsi	7992333561	adnaan.darmsi@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	24	T. Chanan Kumar Reddy	9014738801	chananreddy017@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	25	P. Sai Chanan	9959452881	sai.chanan91531@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	26	S. Lokanath	8341848009	telugulokanathlokanath36@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	27	Telugu Akshaya	6304219823	akshaytelugu@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	28	G. Santhosh Kumar	8331864456	santhosh8569@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	29	G. Yeswanth Kartik	8241295815	yeshwanthkarti@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BCom	30	D. Malik Basha	9179475406	malikbasha.dudukula16@gmail.com	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

**S. Kalpana**  
 HOD  
 Dept. of Computer Science  
 St. Joseph's Degree College  
 Sunkesula Road,  
 KURNOOL-518 004

**No. of Students of II B.Com., III Semester participated in the course: 30**

## **Learning Outcomes:**

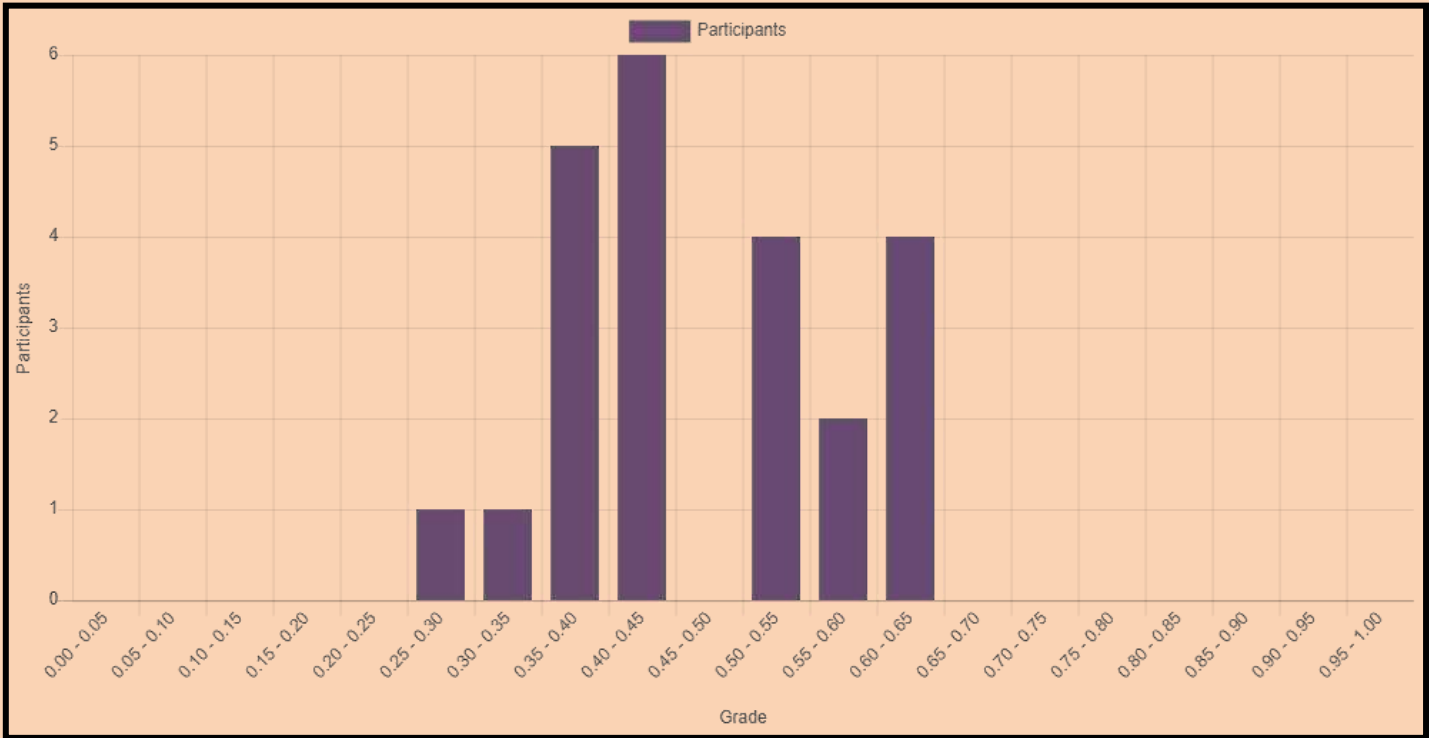
After completion of the C++ programming course you will be.;

- 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 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**

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

Surname	First name	Email address	Grade/10
Navaneetha	Eepuri	navaneethaeepuri020@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
Charan	Sai	saicharan97571@gmail.com	6
Revathi	Vadde	vadderevathi678@gmail.com	5.2
Rehan Basha	Shaik	rickyrehan68@gmail.com	6
Sowjanya	Bethi	bsowji28@gmail.com	3.6
Pravallika	Dudekula	dudekulapravalika@gmail.com	5.6
Sai Preethi	Mekala	preethi30102005@gmail.com	3.6
Poojitha	Mallepogu	poojithamallepogu5@gmail.com	4.4
Kovidha	Bolli	kovidhabolli@gmail.com	6
Akshay	Telugu	akshaytelugu8@gmail.com	4
Kumar Reddy	Charan	charanreddy0407@gmail.com	4
Shaik	Hazirunnisa	shaikhazirunnisa111@gmail.com	2.8
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
Overall average			4.6



# Participation Certificate



**St. Joseph's Degree College**

Sunkesula Road, KURNOOL - 518 004, A.P.  
www.sjcknl.edu.in



## Certificate of Completion

This is to certify that

*Mr. / Ms.* \_\_\_\_\_

of \_\_\_\_\_

*has successfully completed ADD-ON Course on*

**Programming in C++**

*from 02 Aug 2024 to 04 Sep 2024*

*Organized by*

**Department of Computer Science**

*S. Lalitha Devi*

HOD

*Jesús*

Vice Principal

*Shanthan*

Principal

## Photo Gallery



**Exam Conducted on 12-09-2024:**



## Feedback

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

