

(Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai) Dindigul - Palani Highway, Dindigul - 624 002

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VAC

ON

PROGRAMMING IN C'AND C++

So NoiguL-614 OC

Dr.D. SENTHIL KUMARAN, N.B., P.D., (MUS).,
Principal

SSM Institute of Engineering and Technology Kuttathupatti Village, Sindalagundu (Po), Palani Road, Dindigul - 624 002.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VALUE ADDED COURSE

ON

PROGRAMMING IN C AND C++

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HoD/ECEering and technology

Dr.D.SENTHIL KUMARAN, W.E., Ph.D., (MUS).

SSM Institute of Engineering and Technology Kuttathupatti Village, Sindalagundu (Po), Palani Road, Dindigul - 624 002. PRINCIPAL



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CIRCULAR

12.02.2019

This is to inform you that ,value added course—"Programming in C and C++," has been arranged for 11 year students of ECE Department from 18/02/2019 onwards. All the students are asked to attend the course without fail.

COURSE INSTRUCTOR

Mrs.A.Geetha AP/ECE Mr.J.Vetri Mani Kumar AP/ECE 12/2/19 HoD/ECE

Dr.S.Karthigai Lakshmi, Prof/ECE

PRINCIPAL

Dr.M.Sarayanan

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Syllabus

- Introduction
- Basic structure of C program, executing a C program
- Constants, Variable and Data Types
- Managing Input and Output Operations:
- Operators and Expressions:
- Decision Making and Branching
- Looping
- Arrays
- Character Arrays and Strings:
- User-defined Functions:
- Pointers and Structures
- C++ Programming basics
- Object and Classes
- Operator overloading
- Inheritance
- Polymorphism



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Value Added Course Summary 2018-2019

Course Name: Programming in C and C++

Course Duration: 30 hours

Year Offered: 2018-2019

Course Instructors: Mrs.A.Geetha, AP/ECE

Mr.J.Vetrimanikumar SSMIET,Dindigul

Course Outcome:

On completion of the course, students will be able to understand the fundamental programming concepts, including variables, data types, control structures and functions and principles of object-oriented programming, including classes, objects, inheritance, polymorphism, and encapsulation

Course Type: Self Framed

Assessment Mode

Attendance: 30 hours

Number of Participants: 115

Scheme of Exam: MCQ

* DINBIGU

Course Co-ordinators

Dr. D. SENTHIL BUWARAN, M.R., Ph.D., (MUS)

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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PRIŃCIPAL

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VALUE ADDED COURSE ON PROGRAMMING IN C AND C++

Value added cours on "Programming in C and C++," has been arranged for II year students of ECE Department from 18/02/2019 to 22/02/2019.

Programming in C and C++ is foundational to computer science and software development. This value-added course aims to provide students with practical skills in these languages, enhancing their ability to develop efficient, robust, and scalable software solutions.

- Equip students with a strong foundation in C and C++ programming.
- Foster problem-solving skills through hands-on coding exercises.
- Enable students to develop real-world applications using C and C++.

C Programming Fundamentals

- Basic syntax and data types.
- Control structures: loops and conditionals.
- Functions and modular programming.
- Pointers and memory management.

C++ Programming Essentials

- Introduction to object-oriented programming (OOP).
- Classes, objects, and constructors.
- Inheritance, polymorphism, and encapsulation.
- Standard Template Library (STL).

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING VALUE ADDED COURSE

ON

PROGRAMMING IN C AND C++

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FACULTY I'C

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name: Regno: Year:	
Assessment Question page	oer
1. What is an array?	
a). An array is a collection of variables that are of the dissimilar	data type.
b). An array is a collection of variables that are of the same data	type.
c.)An array is not a collection of variables that are of the same d.). All the above	lata type.
2.A function which calls itself is called a function.a)Self Functionc) Recursive Function	b) Auto Function d) Static Function
3.Choose correct statement about Functions in C Language.a)Function is a group of c statements which can be reused anyb). Every Function has a return type.c). Every Function may or may not return a value.d). All the above	number of times.
4. Which operator connects the structure name to its member na	ame?
a)	b)>
c)	d). both . and ->
5. How many storage classes in c?	
a). 2	b). 3
c). 4	d). 5
6.Array can be considered as set of elements stored in consecut	ive memory locations but having
a). Same data type	b). Different data type
c). Same scope	d). All the above
7.Choose a syntax for C Ternary Operator from the list. a).condition? expression1: expression2 b). condition: expression1? expression2 c). condition? expression1 < expression2 d). condition < expression1? expression2	
8. Which of the following are themselves a collection of difference of the following are themselves a collection of the following are themselves as collection of the following are	ent data types?
a). String	b). Structures

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d). Array

9. If the two strings are identical, then stremp() function	on returns
a)1	b). 1
c). 0	d)2
10. Which of the following shows the correct hierarchy	•
a)./ + * -	b).* - / +
c).+ - / *	d).* / +-
11. Which of the following is a correct identifier in C+	
a) VAR_1234	b) \$var_name
c) 7VARNAME	d) 7var_name
12. Which of the following is used for comments in C-	
a) /* comment */	b) // comment */
c) // comment	d) both // comment or /* comment */
13. What is virtual inheritance in C++? a) C++ technique to enhance multiple inheritance b) C++ technique to ensure that a private member of t c) C++ technique to avoid multiple inheritances of cla d) C++ technique to avoid multiple copies of the base	asses
14. By default, all the files in C++ are opened in	mode
a) Binary	b) VTC
, ·	, and the second
c) Text 15. Which of the following correctly declares an array	d) ISCII in C++?
a) array{10};	b) array array[10];
c) int array;	d) int array[10];
16. Which is more effective while calling the C++ fun	actions?
a) call by object	b) call by pointer
c) call by reference	d) call by value
17. Which keyword is used to define the macros in c+-	+?
a) #macro	b) #define
c) macro	d) define
18. What is Inheritance in C++?a) Deriving new classes from existing classesb) Overloading of classesc) Classes with same namesd) Wrapping of data into a single class	
19. What is meant by a polymorphism in C++?	
a) class having only single form	b) class having four forms
c) class having many forms	d) class having two forms
a) Any Class in C++ is an abstract class b) c) Class specifically used as a base class with atleast c d) Class specifically used as a base class with atleast c	



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S.NO	REGISTER NO.	NAME OF THE STUDENT	MARKS(20)
1	922117106001	AAKASH S	15
2,	922117106002	AASIFA N	20
3	922117106003	ALWINRAJA C	17
4.	922117106004	ARUN KUMAR J	15
5.	922117106005	ASHWANTHANA GOWRI C	20
6.	922117106006	ASHWATHAMAN K	19
7.	922117106007	ATCHAYA V	20
8.	922117106008	BALAJI RAJ R	16
9.	922117106009	BALAKUMAR A	16
10.	922117106010	BALESHWARI R	18
11.	922117106011	BHARATHI KANNAN G	17
12.	922117106012	BRINDA M	20
13.	922117106013	BUSHRA THASLEEM A.S	19
14.	922117106014	DASS PRAKASH G	15
15.	922117106015	DEEPIKA R	20
16.	922117106016	DHANAPAL J	16
17.	922117106017	DHARSNA M	20
18.	922117106018	DHINAKARAN M	16
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22.	922117106022	EZHIL MATHI M	20
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24.	922117106024	GAYATHIRI DEVI S	20
25.	922117106025	GAYATHRI K	20
26.	922117106026	GOKULA KRISHNAN S	19
27.	922117106027	GOWRI M	20
28.	922117106028	HARIBALAN B	16
29.	922117106029	HARIDHARSHINI T R	20
30.	922117106030	HARIHARAN R	16
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34.	922117106034	HARISH A M	20
35=	922117106035	HARIVIMANTHAN C R	19
36.	922117106036	IMRANA PARVEEN J	20
37.	922117106037	JANANI C	20
38.	922117106038	JANANI R	20
39.	922117106039	JAYASURYA V	16
40.	922117106040	JENITHA NANCY J	20
41.	922117106041	KAARTHIC SHANKAR S	20
42.	922117106043	KARTHIK A	20
43.	922117106044	KARTHIKEYAN N	19
44.	922117106045	KAVIYA K	20
45.	922117106046	KOSHIKHA B	20
46.	922117106047	LAKSHMI S	20
47.	922117106048	LAVANYA J	20
48.	922117106049	LOGADHARSHINI A	20
49.	922117106050	MANIRAJA P	17
50.	922117106051	MARUTHARASU V	20
51.	922117106052	MATHISELVAN R	20
52.	922117106053	MITHUNA VARSHINI D S	20
53.	922117106054	MOHAMED IMRAN T	18
54.	922117106055	MONICA P M	20
55.	922117106056	MOUNIKA M	20
56.	922117106057	NAGALAKSHMI N	18
57.	922117106058	NAGARAJ M	17
58.	922117106059	NAMPERUMAL M	17
59.	922117106060	NANDHA KUMAR M	20
60.	922117106061	NANDHINI P	20
61.	922117106062	NAVANEETHA KRISHNAN J	19
62.	922117106063	NIVETHA V	20
63.	922117106064	NIVETHITHA T	20
64.	922117106065	OVIYA S	20
65.	922117106066	PADMA BHAGAVATHI S A	19
66.	922117106067	PANDIARAJAN S	18
67	922117106068	PARALOGA SELVI I	20
68.	922117106069	PRABHU M	20
69.	922117106070	PRADEEPA M	20
70.	922117106071	PRADEEP RAJA S	16
71.	922117106072	PRAKASH S	20
72.	922117106073	PRASANNA M	20
73.	922117106074	PRAVEEN K	20
74.	922117106075	PRIYADHARSHINI P (02-02-2000)	20
75.	922117106076	PRIYADHARSHINI P (10-08-2000)	20
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79.	922117106082	REVATHI K	20
80.	922117106083	SAMEEMA G	19
81.	922117106084	SANDHIYA J	18
82.	922117106086	SANTHIYA S	20
83.	922117106087	SARANYA M	20
84.	922117106090	SHIFAYAS	20
85	922117106091	SHOBANA B	20
86.	922117106092	SHOBANA SRI S	20
87.	922117106093	SHREE PRASANNA KUMAR T	18
88.	922117106094	SIBIPANDIAN T	20
89.	922117106095	SIVA DARSANA R S	20
90.	922117106096	SIVA SAKTHI BALAN S	17
91.	922117106097	SNEKA K	19
92.	922117106098	SREEMATHY G	20
93.	922117106099	SRIRAM MUTHUPANDI A	20
94.	922117106100	SUBHA LAKSHMI S	20
95.	922117106101	SURYA P	17
96.	922117106102	SURYA PRAKASH M	16
97.	922117106103	SWATHI D	18
98.	922117106104	SWETHA G	20
99.	922117106106	VAISHNAVI V	20
100.	922117106107	VANISHWARI R	20
101.	922117106108	VARSHINI B	20
102.	922117106109	VARSHINI P	20
103.	922117106110	VIGNESHWARAN M	16
104.	922117106111	VINU DEEPTHI S	19
105.	922117106112	VISHNUPRIYA M	20
106.	922117106113	YASWANTH KUMAR S	18
107.	922117106114	YOGAPANDIYAN R	17
108.	922117106115	YOKITHA S	20
109.	922117106116	YUVAGANAPATHI J	17
110.	922117106117	YUVA NARMATHA V	20
111.	922117106118	ZIBRIYA BANU S	17
112.	922117106301	ARUN PANDI S	16
113.	922117106303	VISHNU B	19
114.	922117106701	ALAGU DEIVANAI R M	17
115.	922117106901	MUTHU NAGAVEL K	. 16



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18/02/2019 To 22/02/2019 FEEDBACK FORM

Name of the Participant: K. Gayathie Year/Sem : 71 16

S.No	Question	Excellent	Good	Satisfactory
1	Did the VAC enlighten your mind			
2	Whether your expectation gets satisfied			
3	Whether the session was interactive		~	1
4	Knowledge gained from this VAC is	~		
5	Was the VAC well organized			

Comments on session:	
	K. Gayofha Signature of the Participant
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Name of the Participant: Surya. P

Year/Sem : n / m

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5	Was the VAC well organized			

Comments on session:

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S.No	Question Question	Excellent	Good	Satisfactory
1	Did the VAC enlighten your mind			
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4	Knowledge gained from this VAC is	/		
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S.No	Question	Excellent	Good	Satisfactory
1	Did the VAC enlighten your mind			
2	Whether your expectation gets satisfied		/	
3	Whether the session was interactive			
4	Knowledge gained from this VAC is			
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Comments on session:

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Name of the Participant: Gasanya . 64.

S.No	Question	Excellent	Good	Satisfactory
1	Did the VAC enlighten your mind	V		
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Comments on session:				
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Name of the Participant: Prabhu M

S.No	Question	Excellent	Good	Satisfactory
1	Did the VAC enlighten your mind			
2	Whether your expectation gets satisfied	1		
3	Whether the session was interactive			
4	Knowledge gained from this VAC is	+1	1	
5	Was the VAC well organized		Ť	

Comments on session:

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understood the basics of c and ctt.

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