

# A REPORT

*on*

**Winter Crash Course on**

**“C, C++ Programming for Placements”**

**11<sup>th</sup> January 2023 to 13<sup>th</sup> January 2023.**



**Organized by**

**Department of Electronics and Communication Engineering**

**in Association with**

**IEEE Student Branch - STB16621**

**KINGS COLLEGE OF ENGINEERING, PUNALKULAM**

**A NAAC Accredited Institution**

**Recognized under 2(f) & 12(B) of UGC**

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## CONTENTS

SL.NO.	PARTICULARS	PAGE NO.
1.	Detailed Report	03
2.	Annexure: I (Brochure)	05
3.	Annexure: II (Sample Certificates)	07

## ABOUT THE WORKSHOP:

Three days winter crash course was organized for final year ECE students in the title of "C, C++ programming for placements" from 11<sup>th</sup> January 2023 to 13<sup>th</sup> January 2023. Totally 23 students have enthusiastically participated in this workshop.

The workshop started with Tamizhthai Vazhththu. Ms.K.Gayathri, Final ECE welcomes the gathering. Mrs.N.Mangaiyarkarasi, HOD/ECE delivered the inaugural address. Mrs. D.Vennila, AP/ECE introduced the resource persons. The resource person details were as follows :

Day-1-Session-1 : Mr.T.Pasupathi , Assistant Professor, Kings College of Engineering.

Day-1-Session-2 : Mr.P.Raja Pirian, Assistant Professor, Kings College of Engineering.

Day-2-Session-3 &4 : Mr.T.Jeyaseelan, Assistant Professor, Kings College of Engineering.

Day-3 -Session-5&6 : Mrs.U.Jeyamalar, Assistant Professor, Kings College of Engineering.

## OBJECTIVE:

The main objective of this workshop is to train the students in C and C++ programming and to prepare them towards placements.

DAY 1 - Session 1: The resource person Mr.T.Pasupathi, Assistant Professor/ ECE, begins with fundamentals of C- Language, he covered data types, key words and how the keywords are used in C-Programming. He also explains about operators used in C-language such as arithmetic operators, relational operators, conditional statements and loop statements. He delivers the syntax with simple examples.



*Resource Person Mr.T.Pasupathi, AP/ECE, KCE delivering the lecture to the participants*

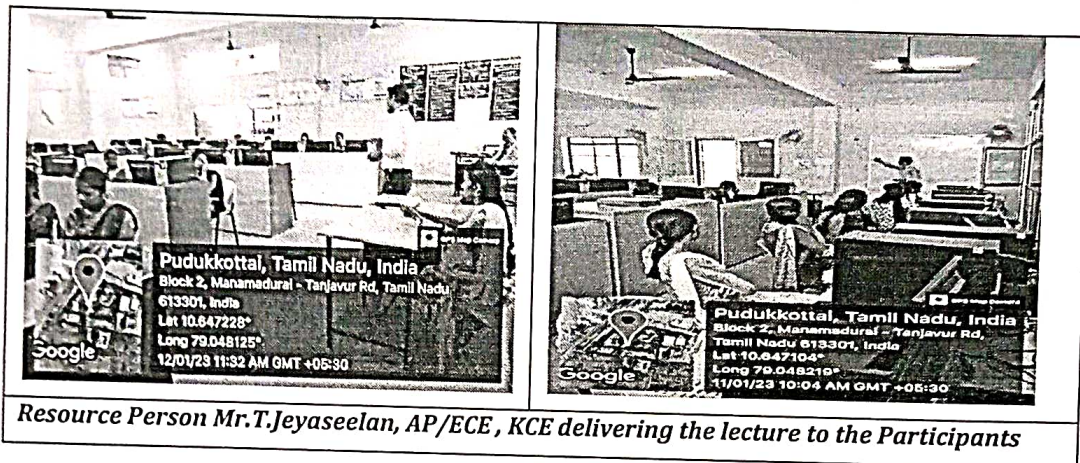


*Resource Person Mr.P.Raja Pirian, AP/ECE, KCE, delivering the lecture to the participants*

DAY 1 - Session 2 : The resource person Mr.P.Raja Pirian Assistant Professor /ECE trained the students with arrays in C, string handling, function, pointers, structures and unions, linked list & file management. Finally he trained the student with a project named "student Information system", which includes the details such as student's personal information and academic details. The students were actively participated in both the sessions.

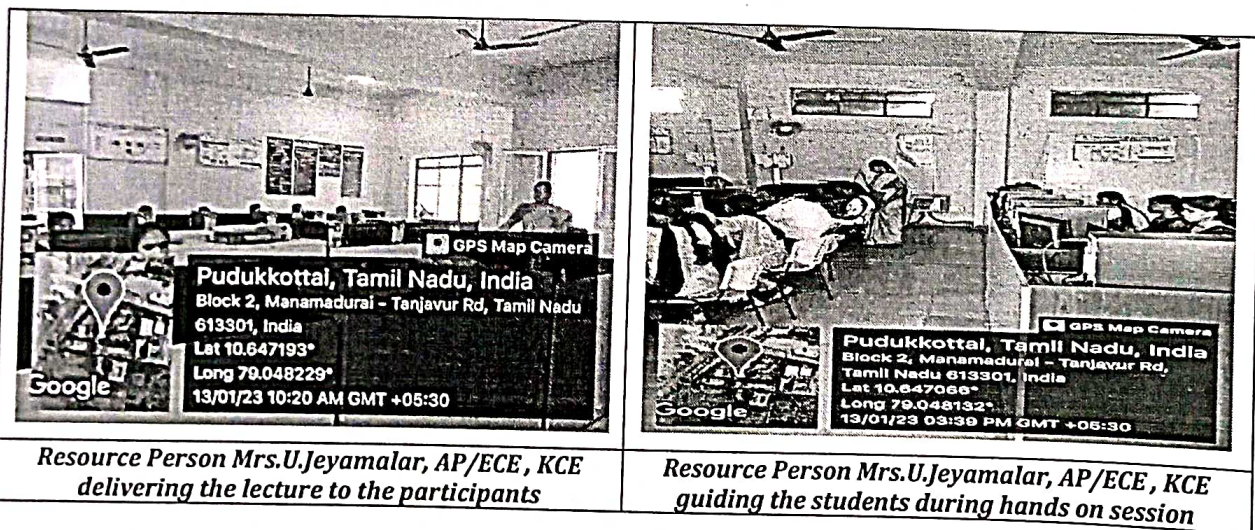


DAY 2 - Session 3 & 4 : Mr.T.Jeyaseelan, Assistant Professor/ECE, delivers lecture on fundamentals of C++ Programming. In this, he covered the topics such as data types, variables, strings, if-else statement, loops, functions call by value and call by reference, recursion and recursive function in C++, data input and output, classes & objects, constructors and destructors, operator overloading. A hand on session was arranged during the afternoon session. In that the students were practiced to write and execute the programs based on the topics learned in the forenoon session.



*Resource Person Mr.T.Jeyaseelan, AP/ECE, KCE delivering the lecture to the Participants*

DAY 3 - Session 5 & 6 : Mrs.U.Jeyamalar Assistant Professor /ECE, delivers the lecture on header files, arrays, pointers, memory management basics, classes and objects, operator overloading, and vectors, inheritance, polymorphism & exception handling.



*Resource Person Mrs.U.Jeyamalar, AP/ECE, KCE delivering the lecture to the participants*

*Resource Person Mrs.U.Jeyamalar, AP/ECE, KCE guiding the students during hands on session*

The afternoon session was hands on session. The students were practiced with various programs. Finally Mr.R.Thandayuthapani Assistant Professor / ECE, delivered the vote of thanks. Thus the workshop ended successfully.



Annexure: I (Brochure)



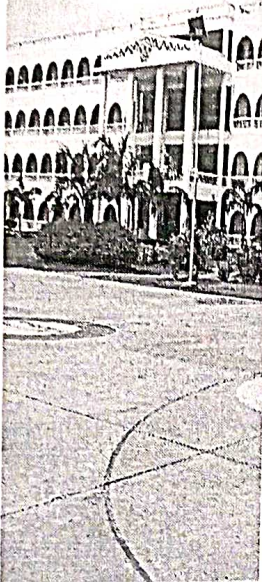
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Punalakulam, Gandarvakottai Taluk, Pudukkottai District - 613 803.



**Department of  
Electronics & Communication  
Engineering**

Especially  
for IV ECE  
Students



**Three Days Winter Crash Course on  
C & C++ Programming for Placements**  
11.01.2023 to 13.01.2023 @ 10:00am to 04:00pm

**Resource Persons**



**Mr.P.Raja Pirian**  
Assistant Professor  
Department of ECE



**Mr.T.Jeyaseelan**  
Assistant Professor  
Department of ECE



**Mr.T.Pasupathi**  
Assistant Professor  
Department of ECE



**Mrs.U.Jeyamalar**  
Assistant Professor  
Department of ECE

**Topics :**

- ✓ C-Programming : C - fundamentals, Arrays in C, String Handling, Function, Pointers, Structures and Unions, Linked List & File Management.
- ✓ C++ Programming : Data Input and Output, Classes & Objects, Constructors and Destructors, Operator Overloading, Inheritance, Polymorphism & Exception Handling.
- ✓ Simple Projects using C & C++

**VENUE : DSP LAB**

**Co-ordinators: Mrs.D.Vennila, AP/ECE Mr.R.Thandayuthapani, AP/ECE**

**Convener**  
**Mrs.N.Mangaiyarkarasi**  
**HOD/ECE**



**Patron**  
**Dr.J.Arputha Vijaya Selvi**  
**PRINCIPAL**

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Outcomes:

At the end of this workshop the students gained more knowledge to

- Develop a C program.
- Manage I/O operations in C program.
- Apply code reusability with functions and pointers.
- Use functions and pointers in C++ program.
- Understand tokens, expressions, and control structures.
- Describe and use constructors and destructors.
- Understand and employ file management.

D. Veerababu  
7/12/23  
Coordinator(s)

ab  
7/12/2023  
HOD/ECE

S. Prasad  
7/12/2023  
PRINCIPAL