

Five Days Online Workshop

on

Basics of C and C++ Programming

(July 15-19, 2020)

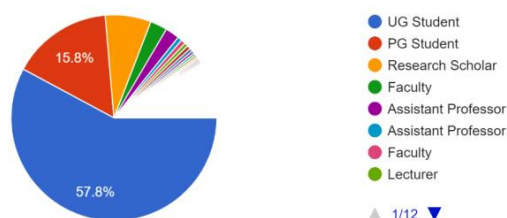
REPORT

The Department of Mathematics, Rajiv Gandhi University organised a **Five Days Online Workshop** on “**Basics of C and C++ Programming**” for Students and Teachers during July 15-19, 2020. The workshop was organised in collaboration with Spoken Tutorial Project, IIT Bombay. The workshop was specifically meant for students of colleges and universities, research scholars, and other academicians. The main objective of this workshop was to impart basic knowledge of C and C++ programming languages and to encourage them to participate in the National Agenda of knowledge building through online distance education mode in the present pandemic situation. It also aimed at keeping up teaching-learning process at this hour of crisis.

PARTICIPANTS

There was a good response from the students (both undergraduate and postgraduate) as well as faculties of different academic institutions. In fact, 861 people registered for the workshop of which 634 were students from different colleges and universities and rest included other academicians.

Occupation/Designation
861 responses



SESSIONS

The workshop was carried out in online distance education mode which is highly conducive for the participants to learn from their own residence. The workshop had altogether

twenty pre-recorded video lecture sessions. The sessions were delivered via video lessons of Ashwini R Patil created by Spoken Tutorial team. The lessons covered all the basic topics in C and C++. The lessons were very thoroughly presented with the help of hands-on programs. The lessons were followed by a series of assignments, based on the topics taught.

An online test on C++ was also conducted for those participants who were willing to appear for one. Mr. Partha Goswami, Executive Officer/Training Manger (Assam and Arunachal Pradesh) coordinated the online test on behalf of Spoken Tutorial Project.

OUTCOMES

The participants showed positive response toward the workshop. They actively participated in the sessions and submitted their assignments before the due date. Further, ninety three participants turned up for attempting the online C++ test, remotely conducted by IIT Bombay, though the test was not mandatory. A training completion certificate was given to all the successful participants of the test by Spoken Tutorial Project, IIT Bombay.

CONCLUSION

The workshop was beneficial to all the participants, especially the students. The topics covered were according to the syllabus of the introductory course in C and C++ of most of the universities and colleges in India. All the participants were provided with a participation certificate by the organisers.

The workshop initiated by Department of Mathematics, Rajiv Gandhi University was made possible due to the online repository of knowledge created by Spoken Tutorial, Project, IIT Bombay. Such online repository is tremendously advantageous in the current times of COVID-19 pandemic, when there is a push toward online learning and teaching. Several educational institutions can benefit from ready-made video lessons thereby making it easier to conduct online classes. In addition to video lessons Spoken Tutorial Project has also been helpful in conducting tests and distribution of certificates for participation.

ORGANISING COMMITTEE

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PROGRAMME SCHEDULE

Date	Session	Topics of Lecture
15/07/2020	I	First C Program
	II	First CPP Program
	III	Tokens in C and C++
	IV	Functions
16/07/2020	I	Scope of Variables
	II	If and Else If Statement
	III	Nested If and Switch Statements
	IV	Increment and Decrement Operators
17/07/2020	I	Arithmetic Operators
	II	Relational Operators
	III	Logical Operators
	IV	Loops
18/07/2020	I	Arrays
	II	Working with 2D Arrays
	III	Strings
	IV	String Library Functions
19/07/2020	I	Working with Structures
	II	Understanding Pointers
	III	Function Call
	IV	File Handling in C