

5 (Five) Days Online Workshop

On

Basics of C and C++ Programming

(15 -19 July, 2020)

Organized by



Department of Mathematics
Rajiv Gandhi University
Arunachal Pradesh-791112

in collaboration with



<http://spoken-tutorial.org>

Spoken Tutorial Project, IIT Bombay

ABOUT THE DEPARTMENT

The department of Mathematics is an important constituent of the faculty of Basic Sciences since 2005, the year when it was established. The department offers two-years (Four Semesters) M. A./M. Sc. programme in Mathematics & Computing. In addition, the department offers M. Phil. and Ph. D. programmes in Mathematics & Computing in different research areas of Pure and Applied Mathematics. The faculty members are specialized in various areas of Algebra, Analysis and Applied Mathematics. The department aims to train people who are oriented towards research and teaching in advanced areas of Pure and Applied Mathematics. The objectives of the department are to impart quality education through M. Sc., M. Phil. and Ph. D. programmes, promote theoretical and applied research, and develop interaction with other departments of the university and other organizations.

BACKGROUND

C is middle level programming language which combines the features of both high level and low level languages. It was developed by Dennis Ritchie during the early 1970s while working at AT&T Bell Labs in USA. The need to re-design the UNIX operating system to enable it to be used on multiple computers led to the development of C. C is a highly portable structured general-purpose programming language which is used for scripting system applications which form a major part of Windows, UNIX and Linux operating system. It also efficiently works on enterprise applications, games, graphics, and applications requiring calculations. C++ is a highly portable language and is often the language of choice for multi-device, multi-platform app development. In fact, C++ is an extended object-oriented programming language which includes classes, inheritance, polymorphism, data abstraction and encapsulation. C++ also allows exception handling, and function overloading which are not possible in C. Being a powerful, efficient and fast language, it finds a wide range of applications - from GUI applications to 3D graphics for games to real-time mathematical simulations. On account of the wide significance of C and C++ programming languages, it has become an integral part of course syllabus in most of the higher educational institutions around the world. Now a day, it helps a great deal in research oriented works in the field of mathematics, Physics, Computer Science etc.

METHODOLOGY

- This online workshop is planned to be purely in online distance education mode, which is highly conducive for the participants to learn from their own residence. This workshop will be conducted in collaboration with Spoken Tutorial Project, IIT Bombay
- The participants will be provided with the links to the pre-recorded videos and course materials of Spoken Tutorial. **There will be no live sessions.**

- The participants will also be given assignments which will be mandatory for all in order to get the e-participation certificate.
- The participants will have to pass an online C and C++ test, remotely conducted by IIT Bombay, in order to successfully complete this training. A course completion certificate will also be given to the successful participants by Spoken Tutorial Project, IIT Bombay.

TARGET GROUPS

- Students of universities/colleges
- Research Scholars
- Other academicians.

REGISTRATION

Mode : Online via Google Form

Link: https://docs.google.com/forms/d/1INlzup-5gF_EnilzKA7DtOalwEpPKZ6DnEnCeb3GmEhE

Fee : No registration fee.

Last Date : 12 July, 2020

OBJECTIVES

- To impart the basic knowledge of C and C++ programming languages to the students, research scholar, and other academicians.
- To encourage the student community to participate in the National Agenda of knowledge building through online distance education mode in the present pandemic situation.
- To keep the students engaged in some productive work.

OUTCOMES

The workshop will help the participants to learn and excel in C and C++ programming. It is expected that after this training the participants would be able to code a program on their own. It will also help the participants, in particular the students, to get well acquainted with online distance education mode.

ORGANIZING COMMITTEE

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