



UNIVERSITY OF MAURITIUS

Introduction to Coding with C

Training Overview:

The ability to code to instruct a computer to perform tasks is fascinating, even more so given its widespread, if not ubiquitous, use in every aspect of our modern society. Indeed, the ability to code is at the core of digitization. Coding is used in a wide range of projects, including developing software applications, solving problems, interfacing with hardware electronics, developing games, developing apps for mobiles and programming a controller for a process, e.g. Programmable Logic Controller (PLC) used for industrial process control or a microcontroller like Arduino® used for automating a system, to name a few. Therefore, learning to write programs is a key skill that can open several opportunities for innovation and fun projects, and is at the heart of emerging technologies such as Industry 4.0, AI, Machine Learning, IoT, 5G and cloud computing.

Why C? C is one of the programming languages that has been around for a long time. Yet C is still heavily used as it is a very effective language for several application areas. Moreover, learning C will provide a strong foundation for you to learn to program in other languages. This course in C programming also provides a pathway for other courses such as MatLab and Arduino programming, and develops fundamental appreciation of the world of Information Technology through interactive and hands-on exercises in a computer lab environment at the university.

A Certificate of Attendance will be provided for completing the course.

Targeted participants: general public, school leavers, university students, industry professionals across all sectors.

Register your interest at the following link:

<https://forms.gle/rJwxDqjNexQQHmAj8>



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Pre-requisite: None

Session	Description
1	Introduction to IT and Programming
2	Getting started to coding in C
3	Variables, operators and expressions
4	Control Flow
5	Repeated Loops
6	Arrays
7	Working with files
8	Functions
9	Pointers
10	Case studies and application projects

Course fees: Rs 8,750

Venue: University of Mauritius

Day/Time: Please consult the online form for options



Dr. Mahendra Gooroochurn works as Associate Professor in the Mechanical & Production Engineering Department of the University of Mauritius. He teaches programming, control and AI/Machine Learning modules at undergraduate and postgraduate levels, hence his keen interest in digital technologies and coding. He is a chartered engineer and an accredited green building design and construction professional. He has interest in developing intelligent, automated systems for promoting sustainable solutions.

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