

## Contents

<b>1 CE103 Algorithms and Programming I</b>	<b>1</b>
<b>2 Week-6</b>	<b>1</b>
<b>3 C++ Functional Console Programming</b>	<b>1</b>
3.1 Books and Resources . . . . .	1
<b>4 C++ Functional Console Programming</b>	<b>1</b>

## 1 CE103 Algorithms and Programming I

## 2 Week-6

---

## 3 C++ Functional Console Programming

---

### 3.1 Books and Resources

[free-programming-books/free-programming-books-langs.md](#) at master · EbookFoundation/free-programming-books · GitHub

## 4 C++ Functional Console Programming

We will follow the following topics

- [Learn C++ Programming](#)
- [Introduction to C++ | C Plus Plus Programming Language Tutorials](#)
- [The C and C++ programming tutorials, hands-on approach with program examples, code samples and tons of output images using Visual C++, C++ Builder, Linux gcc and g++ compilers and IDE](#)

1. Cpp Programming
  - a. C++ Introduction
  - b. C++ Variables and Literals
  - ii. C++ Data Types
  - iii. C++ Basic I/O
  - iv. C++ Type Conversion

1. C++ String to Int and Vice-Versa
2. C++ String to Float, Double and Vice-Versa
  - v. C++ Operators
  - vi. C++ Comments
- b. C++ Flow Control
- c. C++ if..else
- ii. C++ for loop
- iii. C++ do..while loop
- iv. C++ break statement
- v. C++ continue statement
- vi. C++ switch statement
- vii. C++ goto statement
- viii. C++ Functions
- ix. C++ Functions
- x. C++ Function Types
- xi. C++ Function Overloading
- xii. C++ Default Argument
- xiii. C++ Storage Class
- xiv. C++ Recursion
- xv. C++ Return Reference
- xvi. C++ Arrays & String
- xvii. C++ Arrays
- xviii. Multidimensional Arrays
- xix. C++ Function and Array
- xx. C++ String
- e. C++ Structures
- f. C++ Structures
- ii. Structure and Function
- iii. C++ Pointers to Structure
- iv. C++ Enumeration
- f. C++ Object & Class

- g. C++ Objects and Class
- ii. C++ Constructors
- iii. C++ Objects & Function
- iv. C++ Operator Overloading
- g. C++ Pointers
- h. C++ Pointer
- ii. C++ Pointers and Arrays
- iii. C++ Pointers and Functions
- iv. C++ Memory Management
- h. C++ Inheritance
- i. C++ Inheritance
- ii. Inheritance Access Control
- iii. C++ Function Overriding
- iv. Multiple & Multilevel Inheritance
- v. C++ Friend Function
- vi. C++ Virtual Function
- C++ Templates