



## **EDGE Stands for Essential Diploma for Graduate Engineers**

**Note: Only main points are mentioned in this file. Teaching/Training will be in detail.**

# **C Programming**

History of C, Features of C, How to install C, First C Program, Flow of C Program, printf scanf Variables in C, Data Types in c, Keywords in c ,C Operators, C Comments, C Escape Sequence, Constants in C

**C control Statements** C if-else, C switch, C do-while loop, C while loop, C for loop, C break, C continue ,C goto ,Type Casting C

**Functions**-What is function, Call by Value & Reference, Recursion in c

**Array-** 1-D Array, 2-D Array, Array to Function

**Pointer** C Pointers, C Pointer to Pointer, C Pointer Arithmetic

**Strings** String in C, C gets() & puts(), C String Functions, C strlen(), C strcpy(), C strcat(), C strcmp(), C strrev() ,C strlwr(), Cstrupr(), C strstr(), C math functions

**C Structure Union**-C Structure, C array of Structure, C Nested Structure, C Union

**C File Handling-** C File Handling, C fprintf() fscanf(), C fputc() fgetc(), C fputs() fgets(), C fseek(), C rewind(), C ftell()

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# SQL

**Introduction to SQL** What is Database, What is RDBMS, DBMS vs RDBMS, SQL Syntax, SQL Data Types, SQL Operators

**SQL Database** SQL CREATE Database, SQL DROP Database, SQL RENAME Database , SQL SELECT Database

## **SQL Table**

What is Table, SQL TABLE Variable, SQL CREATE TABLE, SQL DROP TABLE, SQL DELETE TABLE, SQL RENAME TABLE, SQL TRUNCATE TABLE, SQL COPY TABLE, SQL TEMP TABLE, SQL ALTER TABLE

## **SQL Select**

SELECT Statement, SQL SELECT UNIQUE, SQL SELECT DISTINCT, SQL SELECT COUNT, SQL SELECT TOP, SQL SELECT FIRST, SQL SELECT LAST, SQL SELECT RANDOM, SQL SELECT AS, SQL SELECT IN, SQL SELECT Multiple, SQL SELECT DATE, SQL SELECT SUM, SQL SELECT NULL

## **SQL Clause**

SQL WHERE, SQL AND, SQL OR, SQL WITH, SQL AS

## **SQL Order By**

ORDER BY Clause, ORDER BY ASC, ORDER BY DESC, ORDER BY RANDOM, ORDER BY LIMIT, ORDER BY Multiple Cols

## **SQL Insert**

INSERT Statement, INSERT INTO Values, INSERT INTO SELECT, INSERT Multiple Rows

## **UPDATE Statement**

## **SQL Delete**

DELETE Statement, SQL DELETE TABLE, SQL DELETE ROW, SQL DELETE All Rows, DELETE Duplicate Rows, SQL DELETE DATABASE, SQL DELETE VIEW, SQL DELETE JOIN

## **SQL Join**

SQL JOIN, **SQL Outer Join**, **SQL Left Join**, SQL Right Join, SQL Full Join, SQL Cross Join

## **SQL Keys**

Primary Key, Foreign Key, Composite Key, Unique Key, Alternate Key

**PL/SQL-** Control Statements, Trigger, Functions, Stored Procedures

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# **Web Designing**

## **HTML**

Introduction, Basic tags, Lists, Tables, Frames, Forms, HTML5

## **CSS**

Introduction, Types of Style Sheets, Class Selector, ID Selector, Absolute and Relative Positioning, DIV + CSS, Layout Design, CSS

## **JavaScript**

Introduction to scripting, Introduction to JavaScript, Variables and operators, Working with alert, confirm and prompt, Conditional Statement, Looping Statement, Events and functions

## **Bootstrap**

Bootstrap, Advance, Bootstrap, Utilities

## **Software Project Management Syllabus**

<b>Software Project Management</b>
Introduction to Project Management
Scope of Project
Project Scheduling
Team responsibilities and activities
Test Cases and Cost implications
UATs
Software DLC
Live Project

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# .NET

## C#

### **.NET Framework-CLR, FCL**

C++ vs , C#, Java vs , C#, C# History, C# Features, C# Example, C# Variables, C# Data Types, C# Operators, C# keywords

### **C# Control Statement**

C# if-else, C# switch, C# For Loop, C# While Loop, C# Do-While Loop, C# Break, C# Continue, C# Goto, C# Comments

### **C# Functions**

C# Function, C# Call By Value, C# Call By Reference, C# Out Parameter

### **C# Arrays**

C# Arrays, C# Multidimensional Array, C# Jagged Arrays, C# Params, C# Array class, C# Command Line Args

### **C# Object Class**

C# Object and Class, C# Constructor, C# Destructor, C# this, C# static, C# static class, C# static constructor, C# Structs, C# Enum

### **C# Properties**

C# Properties

### **C# Inheritance**

C# Inheritance, C# Aggregation

### **C# Polymorphism**

C# Member Overloading, C# Method Overriding, C# Base, C# Polymorphism, C# Sealed

### **C# Abstract, C# Interface, C# Namespaces, C# Access Modifiers, C# Encapsulation, C# Strings**

**C# Exception Handling** C# Exception Handling, C# try/catch, C# finally, C# Custom Exception, C# checked unchecked, C# SystemException

**C# File IO** C# FileStream, C# StreamWriter, C# StreamReader, C# TextWriter, C# TextReader, C# BinaryWriter, C# BinaryReader, C# StringWriter, C# StringReader, C# FileInfo, C# DirectoryInfo, C# Serialization, C# Deserialization, C# System.IO

### **C# Collections**

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C# Collections, C# List<T>, C# HashSet<T>, C# SortedSet<T>, C# Stack<T>, C# Queue<T>, C# LinkedList<T>, C# Dictionary<K, V>, C# Sorted Dictionary<K, V>, C# SortedList<K, V>

## **C# Generics**

## **C# Delegates**

## **C# Reflection**

## **Anonymous Function**

## **C# Multithreading**

C# Multithreading, C# Thread Life Cycle, C# Thread class, C# Main Thread, C# Thread Example, C# Thread Sleep, C# Thread Abort, C# Thread Join, C# Thread Name, C# ThreadPriority

# **ASP .NET**

## **ASP .NET Web Forms**

ASP.NET WF Introduction, ASP.NET WF Features, ASP.NET WF Project, ASP.NET WF Example, ASP.NET Server Controls, ASP.NET Label, ASP.NET TextBox, ASP.NET Button, ASP.NET HyperLink, ASP.NET RadioButton, ASP.NET Calendar, ASP.NET CheckBox, ASP.NET LinkButton, ASP.NET FileUpload, Multiple FileUpload, ASP.NET Download File, ASP.NET Cookie, ASP.NET Session, ASP.NET DropDownList, ASP.NET DataList, ASP.NET DataGrid, WF User Registration, WF Events Handling, WF Authentication, WF Model BindingHTML Server Controls

## **ASP .NET Validations**

CompareValidator, RangeValidator, RegularExpression, ValidatorRequired, FieldValidator, Validation Summary

## **Master Pages, Applying themes, css**

## **MVC**

ASP.NET MVC, MVC Project, MVC Controller, MVC Actions, MVC Action Selectors, MVC Action Filters, MVC Model, MVC Model Binding, MVC View, MVC Validation, MVC Entity Framework, MVC Authentication, MVC Bootstrap, MVC Routing, MVC Scaffolding, MVC ViewBag

## **WPF, WCF**

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## Front Bench Advantage:

- *Over 5 years Real-Time experienced Faculty*
- *Job oriented, Industry relevant curriculum*
- *Conceptual training methodology*
- *Project/Lab based training*
- *Opportunity for Internship*
- *100% Job Assurance*

## Career Options:

- Software Development Companies
- Web design studios
- Website development studios
- Website or portal development studios
- Advertising agencies
- Print & Publishing houses (like newspapers, magazines, etc.)
- Multimedia production houses
- Freelancing (Work from home)

## Job Profile after this course:

- UI Developer / Web Developer
- Software Developer / JAVA Developer/ .Net Developer
- Full Stack Developer
- SQL Developer / Database Analyst / BACKEND DEVELOPER
- DATABASE Administrator

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