

Commeccs College

Macro Plan 2024-2025

Subject: Computer Science **Teacher:** M.Jawwad

Sections: **Class:** XII

Week	Event	From	To	Saturday Status	Working Days	Teaching Days	Chapters	Content
01	Orientation XI, XII/ Foundation Course	Mon, Aug 01	Fri, Aug 02	Off	02	02	Concept of Computer Programming	Basic concepts of Computer Science
02	Foundation Course	Mon Aug 05	Sat, Aug 10	Working	06	05	Concept of Computer Programming	1) What is problem solving 2) What is problem 3) Plan the solution 4) Problem solving strategies 5) Problem solving process 6) Object oriented programming in general
03	Teaching	Mon, Aug 12	Fri, Aug 16	Off	05	04	Concept of Computer Programming	7) Programming languages in general. 8) Characteristics of Programming languages 9) Programming cycle

04	Teaching	Mon, Aug 19	Sat, Aug 23	Working	05	05	Algorithm and Flowchart	<ol style="list-style-type: none"> 1) Algorithms 2) Pseudocode 3) Mathematical Notation 4) Algorithm Exercises
05	Teaching	Mon, Aug 26	Fri, Sep 01	Off	06	05	Algorithm and Flowchart	<ol style="list-style-type: none"> 5) Algorithm Exercises 6) Flowchart 7) Types of Flowchart 8) Flowchart Exercises
06	Teaching	Mon, Sep 02	Sat, Sep 06	Working	05	05	An Overview of C Language	<ol style="list-style-type: none"> 1) Introduction to C 2) Why learn C? 3) IDE of C 4) Parts of IDE

07	Teaching Foundation Day Thu, September 15	Mon, Sep 09	Fri, Sep 14	Off	06	05	An Overview of C Language	<ol style="list-style-type: none"> 5) Development Environment 6) Preparing to program 7) Compiling the source code 8) Running the program
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08	Teaching	Mon, Sep 16	Sat, Sep 20	Working	05	05	An Overview of C Language	9) Using Comments 10) Escape sequence. 11) Good Practices programming 12) Library files 13) Syntax of a language
09	Teaching	Mon, Sep 23	Fri, Sep 28	Working	06	05	C Fundamentals	1) Introduction to Variables and Constant 2) Symbolic constant 3) Identifiers/keywords 4) Data types & constants
10	Teaching	Mon, Sept 30	Fri, Oct 04	Off	05	05	Preparing students for first term	Chapter wise recap, quiz and assignment

11	First Term Exams	Mon, Oct 07	Sat, Oct 12	Working	06	05		Revision
12	First Term Exams	Mon, Oct 14	Fri, Oct 18	Off	05	00		
13	First Term Exams	Mon, Oct 21	Fri, Oct 26	Working	06	04		

Term – I
Working Days – 68
Teaching Days – 55
Classes Conducted = 40.41%

14	Teaching	Mon, Oct 28	Sat, Nov 01	Working	05	05	C Fundamentals	5) Programming in C language Paper discussion and solution
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15	Teaching/PTM	Mon, Nov 04	Sat, Nov 09	Off	06	05	C Fundamentals	6) Algorithm to program. 7) Basic programs generation
16	Teaching	Mon, Nov 11	Sat, Nov 15	Working	05	05	Operators and Expressions	Defining Expression
17	Teaching / PTM (Nov 19, 2022)	Mon, Nov 18	Sat, Nov 23	Off	06	05	Operators and Expressions	1) Arithmetic operator 2) Order of precedence 3) Assignment operator 4) Relational operator 5) Equality(==) and assignment(=) operator
18	Teaching	Mon, Nov 25	Sat, Nov 30	Working	06	05	Operators and Expressions	6) Logical/Boolean operators 7) Increment and Decrement operator 8) Conversion of data types
19	Teaching	Mon, Dec 02	Fri, Dec 06	Off	05	05	Input and Output Statements	1) Unformatted I/O Functions 2) Single character Input 3) The get char() Function 4) Difference between get char and getche 5) Single character output 6) Puchar and Putch 7) String Input.
20	Teaching	Mon, Dec 09	Sat, Dec 14	Working	06	05	Input and Output Statements	8) The Puts() function 9) Formatted I/O functions 10) The Scanf() function 11) The Printf() function 12) Exercises

21	Teaching Students' Week (Dec 14 – Dec 17)	Mon, Dec 16	Sat, Dec 20	Off	05	03	Preparing students for second term	Chapter wise recap, quiz and assignment, Home Work Discussion
22	Sports Gala (Dec 19 – Dec 21)	Mon Dec 23	Fri, Dec 28	Off	00	00		
23	Winter Vacations	Mon Dec 30	Sat, Jan 03	Off	03	00		

24	Second Term Exams/ Teaching	Mon, Jan 06	Fri, Jan 11	Working	06	00		
25	Second Term Exams	Mon, Jan 13	Sat, Jan 17	Off	05	02		

Term – II

Total Working Days – 68 + 58 = 126

Total Teaching Days – 55 + 40 = 95

Classes Conducted = 69.34%

26	Teaching/PTM	Mon, Jan 20	Fri, Jan 25	Working	06	05	Selection & Control Structures	1) Introduction top if statement 2) Introduction to control structures 3) Uses of if and control 4) Basic program of if statement.
27	Teaching	Mon, Jan 27	Sat, Jan 31	Off	04	04	Selection & Control Structures	5) Nested if structure 6) Else if structure 7) Nested if-else statements 8) Exercises
28	Teaching	Mon, Feb 03	Sat, Feb 08	Working	05	04	Selection & Control Structures	9) The switch case statement 10) Relational operator in switch 11) Difference between if else and switch case. 12) Nested switch case cons.

29	Teaching	Mon, Feb 10	Sat, Feb 14	Off	04	04	Iteration Control Structures	<ol style="list-style-type: none"> 1) For loop 2) Nested for-loops 3) While-loop 4) Nested while-loop
30	Teaching	Mon, Feb 17	Sat, Feb 22	Working	06	05	Iteration Control Structures	<ol style="list-style-type: none"> 5) Do-while-loop 6) Nested do-while-loop 7) Combining loop types 8) Break/continue
31	Teaching	Mon, Feb 24	Fri, Feb 28	Off	05	05	Functions	<ol style="list-style-type: none"> 1) Introduction to functions 2) Advantages of function 3) General form of function 4) program with or without function

32	Teaching	Mon, Mar 03	Sat, Mar 08	Working	06	05	Functions	<ol style="list-style-type: none"> 5) Passing arguments to a function 6) Function that return a value
33	Teaching	Mon, Mar 10	Sat, Mar 14	Off	05	05	Database Management System	<ol style="list-style-type: none"> 1) Character 2) Entity 3) Field/key field (primary & secondary key) 4) Record / file / database 5) DBMS (merits & demerits)

34	Teaching	Mon, Mar 17	Sat, Mar 22	Off	04	04	Database Management System	6) Database model 7) Components of dbms 8) Query language 9) Report generator 10) Basic Database
35	Teaching	Mon, Mar 24	Sat, Mar 29	Off	00	00	Preparing students for prelims	Chapter wise recap, quiz and assignment, Home Work Discussion
36	Teaching	Mon, Mar 31	Fri, Apr 04	Off	00	00		Revision
37	Preliminary Exams	Mon, Apr 07	Sat, Apr 12	Working	01	01		
38	Preliminary Exams	Mon, Apr 14	Fri, Apr 18	Off	06	00		

Term – III

Working Days – $126 + 57 = 183$,

Teaching Days – $95 + 42 = 137$

Classes Conducted = 100%