Commecs College

Macro Plan 2025-2026

Subject: Computer Science Teacher: KH,AE,JD Sections: Class: XII

Week	Teaching/Events	From	To	Saturdays Status	Working Days	Teaching Days	Chapters	Content
01	Teaching	Fri, Aug 01	Fri, Aug 08	Off	06	06	Concept of Computer Programming	Basic concepts of Computer Science
02	Teaching	Mon Aug 11	Fri, Aug 15	Off	04	03	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 18	Sat, Aug 23	Working	06	05	Concept of Computer Programming	7) Programming languages in general. 8) Characteristics of Programming languages 9) Programming cycle 10) Quiz and Assignment **AI Implementation**: **AI Chabot (like ChatGPT)** for Q&A sessions to explain "What is programming?" with examples from students' daily life.
04	Teaching	Mon, Aug 25	Sat, Aug 30	Working	06	05	Algorithm and Flowchart	1) Algorithms 2) Pseudocode 3) Mathematical Notation 4) Algorithm Exercises

05	Teaching	Mon, Sep 01	Fri, Sep 05	Off	04	04	Algorithm And Flowchart	5) Algorithm Exercises 6) Flowchart 7) Types of Flowchart 8) Flowchart Exercises **AI Implementation**: **AI Scenarios Generator**: "Generate 5 real-world problems where algorithms can solve them" → Students practice designing solutions.
06	Teaching	Mon, Sep 08	Sat, Sep 13	Working	06	05	An Overview of C Language	1) Introduction to C 2) Why learn C? 3) IDE of C 4) Parts of IDE
07	Teaching Foundation Day	Mon, Sep 15	Fri, Sep 19	Off	05	04	An Overview of C Language	5) Development Environment 6) Preparing to program 7) Compiling the source code 8) Running the program
08	Teaching/Quiz week	Mon, Sep 22	Sat, Sep 27	Working	06	05	An Overview of C Language	9) Using Comments 10) Escape sequence. 11) Good Practices programming 12) Library files 13) Syntax of a language 14) Quiz and Assignment **AI Implementation**: **I Gamification**: Kahoot/Quizizz AI-generated quizzes after class to reinforce key points.
09	Teaching/Qirat & Naat Competition	Mon, Sep 29	Fri, Oct 03	Off	05	05	C Fundamentals	1) Introduction to Variables and Constant 2) Symbolic constant 3) Identifiers/keywords 4) Data types & constants

10	Teaching	Mon, Oct 06	Sat, Oct 11	Working	06	05	C Fundamentals	Chapter wise recap, quiz and assignment
11	Teaching	Mon, Oct 13	Fri, Oct 17	Off	05	05	C Fundamentals	5) Programming in C language Paper discussion and solution
12	Teaching Quiz Competition	Mon, Oct 20	Sat, Oct 25	Working	06	05	C Fundamentals	6) Algorithm to program. 7) Quiz and Assignment **AI Implementation**: • **AI Concept Reinforcement**: Students can say, "Explain variables like I'm 10 years old," and AI simplifies.
13	Teaching/Quiz week	Mon, Oct 27	Fri, Oct 31	Off	05	05	Operators and Expressions	Defining Expression
14	Teaching Declamation Contest	Mon, Nov 03	Sat, Nov 08	Working	06	05	Operators and Expressions	1) Arithmetic operator 2) Order of precedence 3) Assignment operator 4) Relational operator 5) Equality(==) and assignment(=) operator
15	Teaching	Mon, Nov 10	Fri, Nov 14	Off	05	05	Operators and Expressions	6) Logical/Boolean operators 7) Increment and Decrement operator 8) Conversion of data types **AI Implementation**: **Gamified AI Quiz**: Students solve operator puzzles → AI scores & hints at weak areas.
16	Teaching Urdu Play	Mon, Nov 17	Sat, Nov 22	Working	06	05	Input and Output Statements	1) Unformatted and formatted I/O Functions 2) Single character Input 3) The get char() Function 4) Difference between get char and getche 5) Single character output

								6) Putchar and Putch, puts 7) Scanf() and printf() function **AI Implementation**: **Voice-to-Code AI**: Students say "Print hello world" → AI writes the code (fun way to teach syntax).
17	Teaching/Quiz week	Mon, Nov 24	Sat, Nov 29	Working	06	05	Preparing students for mid term	Chapter wise recap, quiz and assignment, Home Work Discussion
18	Mid Term Exams	Mon, Dec 01	Fri, Dec 05	Off	05	00		
19	Mid Term Exams	Mon, Dec 08	Sat, Dec 13	Working	06	00		
20	Mid Term Exams/Sports Gala	Mon, Dec 15	Fri, Dec 19	Off	05	00		
21	Winter Break	Mon, Dec 22	Sat, Dec 27	Off	00	00		
Till Mid Term Working Days – 110 Teaching Days – 82 Classes Conducted = 61.65%								

After Winter Break

Week	Events	From	To	Saturdays Status	Working Days	Teaching Days	Chapters	Contents
22	Winter Break/Teaching/ Science Exhibition	Mon, Dec 29	Sat, Jan 03	Working	03	02	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.

23	Teaching / PTM (Jan 09 & 10, 2025)	Mon, Jan 05	Sat, Jan 10	Working	06	04	Selection & Control Structures	5) Nested if structure 6) Else if structure 7) Nested if-else statements 8) Exercises
24	Teaching	Mon, Jan 12	Fri, Jan 16	Off	05	05	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. **AI Implementation**: **Scenario-to-Code AI**: Students describe a situation ("If it rains, bring umbrella") → AI writes `if-else`.
26	Teaching/Annual Award Ceremony	Mon, Jan 26	Sat, Jan 31	Working	06	05	Iteration Control Structures	1) Do-while-loop 2) Nested do-while-loop 3) Combining loop types 4) Break/ continue 5) Quiz and Assignment **AI Implementation**: **AI Loop Builder**: Students say, "Print numbers 1 to 10" → AI generates code in `for`, `while`, `do-while` for comparison.
27	Teaching	Mon, Feb 02	Fri, Feb 06	Off	03	03	Arrays and string	1)introduction to Array 2) Array Declaration
28	Teaching	Mon Feb 09	Sat, Feb 14	Working	06	05	Arrays and string	1) Array initiliation and 2D array
29	Teaching	Mon Feb 16	Fri, Feb 20	Off	05	05	Arrays and string	1) string and few functions **AI Implementation**: **AI Visual Memory Mapper**: Shows how arrays/strings are stored in memory step by step.
30	Teaching	Mon, Feb 23	Sat, Feb 28	Working	06	05	pointer	1) Introduction to pointers
31	Teaching	Mon, Mar 02	Fri, Mar 06	Off	05	05	pointer	Pointer initialization and declaration **AI Implementation**: **AI Pointer Simulator**: Shows arrows in memory as pointer moves.

32	Teaching	Mon, Mar 09	Sat, Mar 14	Working	05	04	Preparing students for preliums	Revision
33	Teaching	Mon, Mar 16	Fri, Mar 20	Off	03	03	Preparing students for preliums and board exams	Revision
34	Preliminary Exams	Mon, Mar 23	Sat, Mar 28	Working	05	00		
35	Preliminary Exams	Mon, Mar 30	Fri, Apr 03	Off	05	00		
36	Preliminary Exams	Mon, Apr 06	Sat, Apr 11	Working	06	00		
Till Preliminary Exams **Total Working Days : 110 + 74 = 184** **Total Teaching Days : 82+ 51 = 133** **Classes Conducted = 100 %**								