

Commecs College

Macro Plan 2025-2026

Subject: Computer Science

Teacher: AE, ASR, SL

Sections: Class: XI

Week	Teaching/Events	From	To	Saturdays Status	Working Days	Teaching Days	Chapters	Content
01	Teaching	Fri, Aug 01	Fri, Aug 08	Off	06	06	Foundation -course	Basic concepts of Computer Science
02	Teaching	Mon Aug 11	Fri, Aug 15	Off	04	03	Chapter 1: Introduction to Computer System	1) What are Computer Science and Information Technology? and History of computer 2) Characteristics of computer. 3) Computer system 4) Parts of Computer System 5) Data , Information and Knowledge
03	Teaching	Mon, Aug 18	Sat, Aug 23	Working	06	05	Chapter 1: Introduction to Computer System	1) Types of computers. 2) Concept of Operating system 3) Computer Operations 4) Generation of computer <u>AI implementation:</u> use ChatGPT to simulate a conversion from different generations. Let students ask AI to compare super computer vs micro computers
04	Teaching	Mon, Aug 25	Sat, Aug 30	Working	06	05	Computer Software	1) Types of Software. 2) System software and its types. 3) Operating System. 4) Language translators. Quiz /Assignment

05	Teaching	Mon, Sep 01	Fri, Sep 05	Off	04	04	Computer Software	1) Application software and its types. <u>AI implementation:</u> Assign students to categorize apps on their phone as system vs application software
06	Teaching	Mon, Sep 08	Sat, Sep 13	Working	06	05	Memory management	1) Data versus Information. 2) Unit of memory. 3) Coding system (ASCII, EBCDIC, UNICODE) <u>AI implementation:</u> Interactive AI-based quizzes and number system games
07	Teaching Foundation Day	Mon, Sep 15	Fri, Sep 19	Off	05	04	Computer Architecture	1) CPU and its components. 2) Memory Units. (Primary and Secondary storages). 3) RAM and its types. 4) ROM and its types. 5) Special purpose memories.
08	Teaching/Quiz week	Mon, Sep 22	Sat, Sep 27	Working	06	05	Computer Architecture	6) Registers, Buffers, cache memory, video memory, virtual memory, flash memory, expansion cards and slots, ports. 7) BUS and its types. 8) The system unit of microprocessor. Quiz /Assignment <u>AI implementation:</u> Ask AI to explain how the CPU fetch execute cycle works.
09	Teaching/Qirat & Naat Competition	Mon, Sep 29	Fri, Oct 03	Off	05	05	Computer Architecture	9) Machine cycle, Microprocessor, Co-processor, Mother Board, Power supply. 10) Clock and clock size, Registers

							word size, BUS width, 11) Speed of Computer.
10	Teaching	Mon, Oct 06	Sat, Oct 11	Working	06	05	I/O devices and its function 1) Keyboard input devices. * Keyboard * Terminals 2) Non keyboard input devices * Pointing devices * Scanning devices 3) Voice input devices
11	Teaching	Mon, Oct 13	Fri, Oct 17	Off	05	05	I/O devices and its function 1) Soft copy output devices. <ul style="list-style-type: none">● Monitors.● Voice output devices● Sound output devices <u>AI implementation:</u> Students can scan real devices and classify them as input or output
12	Teaching Quiz Competition	Mon, Oct 20	Sat, Oct 25	Working	06	05	Storage Devices 2) Hard copy output devices <ul style="list-style-type: none">● Printers.● Plotters● Computer output microfilm/microfiche (COM).<ol style="list-style-type: none">1) Secondary storage devices.2) Types of secondary storage devices.3) Sequential and random access medium.
13	Teaching/Quiz week	Mon, Oct 27	Fri, Oct 31	Off	05	05	Storage Devices 1) Types of magnetic storage · Floppy disks · Hard disk · Magnetic tape. 2) Types of optical storage · Compact disks (CD-ROM) · DVD ROM Disks.

								<ul style="list-style-type: none"> · CD-R disks. · CD-RW disks Quiz /Assignment <u>AI implementation:</u> Compare AI cloud storage services like Google drive, one drive(AI base suggestions)
14	Teaching Declamation Contest	Mon, Nov 03	Sat, Nov 08	Working	06	05	Information Networks	1) Technology of work book computing. 2) Various types of computer networks LAN <ul style="list-style-type: none"> · WAN · GAN
15	Teaching	Mon, Nov 10	Fri, Nov 14	Off	05	05	Information Networks	3) Concepts, Modals, Network topologies and protocols. <u>AI implementation:</u> using AI image generators or diagram tools for create their own network topologies.
16	Teaching Urdu Play	Mon, Nov 17	Sat, Nov 22	Working	06	05	Data Communication	1) Introduction of data communication. 2) Types of data 3) Characteristics of data transmission. 4) Transmission modes. 5) Direction of transmission 6) Data communication speed and media. 7) Communications hardware <ul style="list-style-type: none"> · Modem · Ethernet 8) Communication protocols. MODE 9) OSI Model
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	Logical Circuit Gates	1) Defining Logical Gates and its types. 2) Explain AND,OR and NOT Basic gates 3) Explain NAND and NOR Universal gates. 4) Create a circuits and truth table of Logical gates with truth. <u>AI implementation:</u> let chatGPT help students design small circuits and predict output.
23	Teaching / PTM (Jan 09 & 10, 2025)	Mon, Jan 05	Sat, Jan 10	Working	06	04	Data Representation	Conversion of number system <ul style="list-style-type: none"> ● Binary to Decimal ● Decimal to Binary
24	Teaching	Mon, Jan 12	Fri, Jan 16	Off	05	05	Boolean Algebra	1) Rules of Boolean Algebra 2) Truth Table 3) POS(product Of Sum)
26	Teaching/Annual Award	Mon, Jan 26	Sat, Jan 31	Working	06	05	Boolean Algebra	4) SOP(Sum Of Product) 5) Karnuagh Map 6) Quiz /Assignment <u>AI implementation:</u> use AI tools like

								chatGPT to convert decimal to binary and other number system.
27	Teaching	Mon, Feb 02	Fri, Feb 06	Off	03	03	Introduction to IoT	1) Introduction to IoT 2) Impact Of IoT
28	Teaching	Mon Feb 09	Sat, Feb 14	Working	06	05	Introduction to IoT	3) Advantages and dis advantages of IoT <u>AI implementation</u> : let students explore AI+IoT gadgets
29	Teaching	Mon Feb 16	Fri, Feb 20	Off	05	05	Problem Solving	What is Problem solving
30	Teaching	Mon, Feb 23	Sat, Feb 28	Working	06	05	Problem Solving	Six steps of problem solving
31	Teaching	Mon, Mar 02	Fri, Mar 06	Off	05	05	Problem Solving	Types of errors <u>AI implementation</u> : Give real world problems and let student ask AI for the six –step problem solving approach.
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 %