



**Netaji Subhash Chander Bose Memorial
Govt. College Hamirpur,
Himachal Pradesh**

Tel. No.: 01972-222227, FAX: 01972-222227, E-mail: gchamirpur-hp@nic.in



Lesson Plan

Session (2024-2025)

Class: B.C.A 3rd SEM
Subject: Computer Organization
Course: BCA0303

Name of the Teacher: Prof. Shilpa Bajaj
Period: 6th (01:30pm-02:10pm)
Room No: 262(Monday to Saturday)

S. No	Dates	Topics to be covered
Admissions of B.C.A	20-05-2024 to 10-06-2024	Admissions
Week 1	15-07-2024 to 17-07-2024	Orientation programme
Week 2	18-07-2024 to 26-07-2024	Data representation: number systems, decimal to binary, octal and hexadecimal conversion and vice versa, binary coded decimal numbers
Week 3	29-07-2024 to 03-08-2024	Hamming code for error detection, alphanumeric codes, arithmetic operations,
Week 4	05-08-2024 to 10-08-2024	Binary addition and subtraction, addition/subtraction of numbers in 1's and 2's complement notation for binary numbers and 9's and 10's complement notation for decimal numbers,
Week 5	12-08-2024 to 17-08-2024	Binary multiplication and division, BCD arithmetic, floating point addition and subtraction.
Week 6	20-08-2024 to 24-08-2024	Register Transfer Language: Register transfer, Bus and Memory transfer (three-stage bus buffers, memory transfer),
Week 7	27-08-2024 to 31-08-2024	Arithmetic microoperations (Binary Adder, Binary-adder-Subtractor, binary incrementer, arithmetic circuit)
Week 8	02-09-2024 to 07-09-2024	Instruction codes: (stored program organization, indirect address), computer registers (common bus register),
Week 9	09-08-2024 to 14-08-2024	Computer instructions (instruction set completeness), timing and control, instruction cycle (fetch and decode, types of instruction, register-reference instructions)
Week 10	02-09-2024 to 07-09-2024	Micro programmed control, control memory, addressing sequencing (conditional branching, mapping of instructions, subroutine)
Week 11	16-09-2024 to 21-09-2024	Central Processing Unit: Introduction, general register organization (control word, examples of micro-operations),
Week 12	23-09-2024 to 28-09-2024	Stack organization (register stack, memory stack, reverse polish notation, evaluation of arithmetic expressions), Instruction formats (three-address instructions, two address instructions, one address instructions), addressing modes
Week 13	30-09-2024 to 05-10-2024	Minor Test
Week 14	28-09-2024 to 30-09-2024	Data transfer and manipulation (data transfer instructions, data manipulation instructions, arithmetic instructions, logical and bit manipulation instructions, shift instructions)
Week 15	01-10-2024 to 19-10-2024	Program control (status bit conditions, conditional branch instructions, program interrupt, types of interrupt)
Week 16	29-10-2024 to 03-11-2024	Diwali Break
Week 16	04-11-2024 to 09-11-2024	Revision , Student's Presentation and Doubt Clearing Session, Remedial Classes
Week 17	11-11-2024 onward	Practical and Term End Examination

Coordinator BCA

Principal