

TIKA RAM GIRLS COLLEGE SONEPAT

Lesson Plan Format

NAME OF ASSISTANT PROFESSOR: ANU

CLASS AND SECTION: BCA 1ST YEAR

SUBJECT: COMPUTER SYSTEM ARCHITECTURE

DAYS: WEDNESDAY-SATURDAY

SUBJECT:

WEEK 1	DESCRIPTION
16-07-2025	INTRODUCTION TO DIGITAL LOGIC DESIGN
17-07-2025	DIGITAL SIGNALS, DIGITAL COMPUTERS
18-07-2025	VON NEUMAN ARCHITECTURE
19-07-2025	BOOLEAN LAWS & THEOREMS
WEEK 2	
23-07-2025	K- MAP: 2 VARIABLES
24-07-2025	3 VARIABLES
25-07-2025	4 VARIABLE & TRUTH TABLES
26-07-2025	MORE EXAMPLES ON K-MAPS
WEEK 3	
30-07-2025	DON'T CARE CONDITIONS, SOP, POS
31-07-2025	CLASS TEST – I
01-08-2025	NUMBER SYSTEM -DECIMAL, BINARY, CONVERSIONS
02-08-2025	OCTAL TO OTHER SYSTEMS
WEEK 4	
06-08-2025	HEXADECIMAL TO OTHER SYSTEMS
07-08-2025	BINARY CODES, DECIMAL CODES
08-08-2025	ERROR DETECTING AND CORRECTING
WEEK 5	
13-08-2025	ASCII, EBCDIC, EXCESS 3, GRAY CODE
14-08-2025	COMBINATIONAL CIRCUITS: HALF ADDER, FULL ADDER
WEEK 6	
20-08-2025	SUBTRACTOR, ENCODER
21-08-2025	DECODER, MULTIPLEXER, DEMULTIPLEXER
22-08-2025	SEQUENTIAL CIRCUITS: FLIP FLOPS
23-08-2025	SR FLIP FLOP
WEEK 7	
27-08-2025	D FLIP FLOP, J-K FLIP FLOP
28-08-2025	T FLIP FLOP, CHARACTERSTIC, EXCITATION TABLE ETC
29-08-2025	CLASS TEST - II

30-08-2025	REGISTERS, 4 BIT REGISTER, SHIFT REGISTERS -BIDIRECTIONAL SHIFT REGISTERS
WEEK 8	
03-09-2025	COUNTERS : SYNCHRONOUS & ASYNCHRONOUS COUNTERS
04-09-2025	BASIC COMPUTER ORGANISATION
05-09-2025	INSTRUCTION CODES,COMPUTER REGISTERS
06-09-2025	COMPUTER INSTRUCTIONS ,TIMING AND CONTROL
WEEK 9	
10-09-2025	INSTRUCTION CYCLE , MEMORY REFERNCE ,INPUT OUTPUT INSTRUCTIONS
11-09-2025	DESIGN OF BASIC COMPUTER, DESIGN OF ACCUMULATOR LOGIC
12-09-2025	CLASS TEST – III
13-09-2025	CPU, GENERAL REGISTER ORGANISATION, STACK ORGANISATION, INSTRUCTION FORMATS
WEEK 10	
17-09-2025	ADDRESSING MODES
18-09-2025	DATA TRANSFER AND MANIPULATION
19-09-2025	PROGRAM CONTROL
20-09-2025	REDUCED INSTRUCTION SET (RISC),
WEEK 11	

24-09-2025	RISC VS CISC
25-09-2025	PIPELINE AND VECTOR PROCESSING
26-09-2025	PARALLEL PROCESSING
27-09-2025	PIPELINING
WEEK 12	
01-10-2025	ARITHMETIC PIPELINE
02-10-2025	INSTRUCTION PIPELINE
03-10-2025	RISC PIPELINE
04-10-2025	INPUT OUTPUT ORGANISATION
WEEK 13	
08-10-2025	PERIPHERAL DEVICES,
09-10-2025	INPUT OUTPUT INTERFACE
10-10-2025	CLASS TEST -IV
11-10-2025	I/O INTERFACE CONT..
WEEK 14	
WEEK 15	
23-10-2025	ASYNCHRONOUS DATA TRANSFER
24-10-2025	ASYNCHRONOUS DATA TRANSFER CONT..
25-10-2025	MODES OF TRANSFER
WEEK 16	
29-10-2025	PRIORITY INTERRUPT
30-10-2025	DIRECT MEMORY ACCESS

31-10-2025	INPUT -OUTPUT PROCESSOR
01-11-2025	MEMORY ORGANISATION
WEEK 17	
06-11-2025	MEMORY HIERARCHY,
07-11-2025	MAIN MEMORY
08-11-2025	AUXILIARY MEMORY , ASSOCIATE MEMORY
WEEK 18	
12-11-2025	CACHE MEMORY , VIRTUAL MEMORY
13-11-2025	MEMORY MANAGEMENT HARDWARE
14-11-2025	REVISION
15-11-2025	REVISION
WEEK 19	

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Lesson Plan Format

Name of Assistant/Associate Professor

Dr. Divya Shree

Class and Section

BCA [1st Sem]

Subject

Problem Solving. Hight.

Week 1	Description
15-07-25	Problem and problem Instances
16-07-25	
17-07-25	
18-07-25	
19-07-25	
Week 2	
21-07-25	Generalization & Special cases
22-07-25	Computational Problems, Analysis of problems.
23-07-25	
24-07-25	
25-07-25	
26-07-25	
Week 3	
28-07-25	Solution Approaches, Algorithms.
29-07-25	Flowcharts, Role of Data structure in problem solving
30-07-25	
01-08-25	
02-08-25	
Week 4	
04-08-25	Breaking the problem in subproblems
05-08-25	IP/O/P specification, validation.
06-08-25	
07-08-25	
08-08-25	
Week 5	
11-08-25	Revision of Unit 1.
12-08-25	,
13-08-25	

1-08-25	
Week 6	
18-08-25	Structured programming concept Nesting.
19-08-25	
20-08-25	
21-08-25	
22-08-25	
23-08-25	
Week 7	
25-08-25	Diff. kind of Repetitions [Entry controlled - Exit cont] Nesting.
26-08-25	
27-08-25	
28-08-25	
29-08-25	
30-08-25	
Week 8	
01-09-25	Nesting Nesting
02-09-25	
03-09-25	
04-09-25	
06-09-25	
Week 9	
08-09-25	Diff. kind of data in Real world How they are represented in computer system.
09-09-25	
10-09-25	
11-09-25	
12-09-25	
13-09-25	
Week 10	
15-09-25	Intro to prog. lang. Diff generations, History, statements.
16-09-25	
17-09-25	
18-09-25	
19-09-25	
20-09-25	

Week 11	
24-09-25	
25-09-25	
26-09-25	
27-09-25	
Week 12	
29-09-25	loops.
30-09-25	Incremental compilation & Testing of C program
01-10-25	
03-10-25	
04-10-25	
Week 13	
06-10-25	Problem on numbers
08-10-25	
09-10-25	
10-10-25	
11-10-25	
Week 14	
13-10-25	C language
Week 15	
23-10-25	
24-10-25	
25-10-25	
Week 16	
27-10-25	Modular programming Top-down & Bottom up approach Problem on Arrays.
28-10-25	
29-10-25	
30-10-25	
31-10-25	
01-11-25	
Week 17	
03-11-25	Problem on Arrays Matrix operations
04-11-25	

06-11-25	
07-11-25	
08-11-25	
Week 18	
10-11-25	C language
11-11-25	Role of Return Statement, Operator precedence
12-11-25	
13-11-25	
14-11-25	
15-11-25	
Week 19	
17-11-25	Debugging
18-11-25	Revision