

TIKA RAM GIRLS COLLEGE SONEPAT

Lesson Plan Format

NAME OF ASSISTANT PROFESSOR: ANU

CLASS AND SECTION: BCA 1ST YEAR

SUBJECT: OBJECT ORIENTED PROGRAMMING C++

DAYS: WEDNESDAY-SATURDAY

SUBJECT:

WEEK 1	DESCRIPTION
16-07-2025	INTRODUCTION TO LANGUAGE
17-07-2025	SOFTWARE CRISIS & EVOLUTION
18-07-2025	OBJECT ORIENTED PROGRAMMING PARADIGM
19-07-2025	APPLICATIONS
WEEK 2	
23-07-2025	SIMPLE C++ PROGRAM
24-07-2025	AN EXAMPLE WITH CLASS
25-07-2025	STRUCTURE OF C++ PROGRAM
26-07-2025	PRACTICAL LAB
WEEK 3	
30-07-2025	TOKENS, EXPRESSIONS AND CONTROL STRUCTURES
31-07-2025	BASIC DATA TYPES
01-08-2025	CLASS TEST -I
02-08-2025	USER DEFINED & DERIVED DATA TYPES
WEEK 4	
06-08-2025	CONSTANTS, TYPE COMPATIBILITY, VAR. DECLARATION
07-08-2025	DYNAMIC INITIALIZATION VARIABLES, SCOPE RESOLUTION OPERATOR
08-08-2025	PRACTICAL LAB
WEEK 5	
13-08-2025	FUNCTIONS IN C++
14-08-2025	MAIN FUNCTION, FUNCTION PROTOTYPING
WEEK 6	
20-08-2025	CALL BY REFERENCE, RETURN BY REFERENCE
21-08-2025	CLASS TEST -II
22-08-2025	INLINE FUNCTIONS, DEFAULT ARGUMENTS, CONST ARGUMENTS
23-08-2025	FUNCTION OVERLOADING, FRIEND & VIRTUAL FUNCTION
WEEK 7	
27-08-2025	PRACTICAL LAB
28-08-2025	CLASSES & OBJECTS
29-08-2025	DEFINING MEMBER FUNCTIONS, C++ PROGRAM WITH CLASS

30-08-2025	PRIVATE MEMBER FUNCTIONS ETC.
WEEK 8	
03-09-2025	PRACTICAL LAB
04-09-2025	CONSTRUCTORS & DESTRUCTORS
05-09-2025	PARAMETERIZED CONSTRUCTORS
06-09-2025	CLASS TEST -III
WEEK 9	
10-09-2025	MULTIPLE CONSTRUCTORS IN CLASS
11-09-2025	CONSTRUCTORS WITH DEFAULT ARGUMENTS
12-09-2025	PRACTICAL LAB
13-09-2025	COPY CONSTRUCTORS, DYNAMIC CONSTRUCTORS
WEEK 10	
17-09-2025	OPERATOR OVERLOADING AND TYPE CONVERSIONS
18-09-2025	OVERLOADING UNARY AND BINAY OPERTORS
19-09-2025	INHERITANCE: DIFING DERIVED CLASS, SINGLE INHERITANCE
20-09-2025	MAKING PRIVATE MEMBER INHERITABLE
WEEK 11	

24-09-2025	MULTILEVEL & MULTIPLE INHERITANCE, HIERARCHICAL INHERITANCE
25-09-2025	HYBRID INHERITANCE
26-09-2025	PRACTICAL LAB
27-09-2025	VIRTUAL BASE CLASSES, ABSTARCT CLASSES
WEEK 12	
01-10-2025	POINTERS, VIRTUAL FUNCTIONS AND POLYMORPHISM
02-10-2025	POINTERS TO OBJECT
03-10-2025	THIS POINTER, POINTERS TO DERIVED CLASS
04-10-2025	VIRTUAL FUNCTIONS, PURE VIRTUAL FUNCTIONS
WEEK 13	
08-10-2025	MANAGING I/O
09-10-2025	PRACTICAL LAB
10-10-2025	WORKING WITH FILES, CLASSES FOR FILE STREAM OPERATIONS
11-10-2025	OPENING AND CLOSING OF A FILE
WEEK 14	
WEEK 15	
23-10-2025	DETECTING END OF FILE
24-10-2025	INTRODUCTION TO TEMPLATES
25-10-2025	PRACTICAL LAB
WEEK 16	
29-10-2025	CLASS TEPLATES, CLASS TEMPLATES WITH PARAMETERS
30-10-2025	CLASS TEST -IV
31-10-2025	FUNCTION TEMPLATES

01-11-2025	FUNCTION TEMPLATES WITH MULTIPLE PARAMETERS
WEEK 17	
06-11-2025	QUERIES ON UNIT I
07-11-2025	INTRODUCTION TO EXCEPTION HANDLING
08-11-2025	RETHROWING MECHANISM
WEEK 18	
12-11-2025	QUERIES ON UNIT II, III
13-11-2025	QUERIES ON UNIT IV
14-11-2025	PRACTICAL LAB
15-11-2025	REVISION
WEEK 19	

TIKA RAM GIRLS COLLEGE SONIPAT

Lesson Plan Format

Name of Assistant/Associate ProfessorSONIA.....

Class and SectionB.C.A. 2nd YEAR.....

SubjectJAVA PROGRAMMING.....

Week 1	Description
15-07-25	
16-07-25	
17-07-25	
18-07-25	
19-07-25	
Week 2	
21-07-25	
22-07-25	
23-07-25	
24-07-25	
25-07-25	
26-07-25	
Week 3	
28-07-25	
29-07-25	
30-07-25	
01-08-25	
02-08-25	
Week 4	
04-08-25	
05-08-25	
06-08-25	
07-08-25	
08-08-25	
Week 5	
11-08-25	
12-08-25	
13-08-25	

14-08-25	
Week 6	
18-08-25	
19-08-25	
20-08-25	
21-08-25	
22-08-25	
23-08-25	
Week 7	
25-08-25	FUNDAMENTALS OF OBJECT-ORIENTED PROGRAMMING
26-08-25	JAVA EVOLUTION
27-08-25	
28-08-25	
29-08-25	
30-08-25	
Week 8	
01-09-25	OVERVIEW OF JAVA LANGUAGE
02-09-25	JAVA PROGRAM STRUCTURE
03-09-25	
04-09-25	
06-09-25	
Week 9	
08-09-25	JAVA VIRTUAL MACHINE AND PROGRAMMING STYLE
09-09-25	CONSTANTS, VARIABLES AND DATA TYPES
10-09-25	
11-09-25	
12-09-25	
13-09-25	
Week 10	
15-09-25	OPERATORS AND EXPRESSIONS
16-09-25	
17-09-25	
18-09-25	
19-09-25	
20-09-25	

Week 11	
24-09-25	EVALUATION OF EXPRESSIONS
25-09-25	DECISION MAKING AND BRANCHING
26-09-25	
27-09-25	
Week 12	
29-09-25	DECISION MAKING WITH IF STATEMENT
30-09-25	//
01-10-25	
03-10-25	
04-10-25	
Week 13	
06-10-25	DECISION MAKING AND LOOPING
08-10-25	//
09-10-25	
10-10-25	
11-10-25	
Week 14	
13-10-25	
Week 15	
23-10-25	CLASS, OBJECT AND METHODS
24-10-25	//
25-10-25	
Week 16	
27-10-25	ARRAYS, STRINGS AND VECTORS
28-10-25	//
29-10-25	
30-10-25	
31-10-25	
01-11-25	
Week 17	
03-11-25	INTERFACES MULTIPLE INHERITANCES
04-11-25	EXTENDING INTERFACES

06-11-25	
07-11-25	
08-11-25	
Week 18	
10-11-25	IMPLEMENTING INTERFACES
11-11-25	WRAPPED CLASSES
12-11-25	
13-11-25	
14-11-25	
15-11-25	
Week 19	
17-11-25	ENUMERATED TYPES
18-11-25	STRINGS AND ACCESSING INTERFACE VARIABLES

TIKA RAM GIRLS COLLEGE SONIPAT

Lesson Plan Format

Name of Assistant/Associate Professor

.....Ms. Pooja Dahiya.....

Class and Section

.....BCA 2nd Year (IInd sem).....

Subject

.....Data base Management System (DBMS).....

Week 1	Description
15-07-25	
16-07-25	
17-07-25	
18-07-25	
19-07-25	
Week 2	
21-07-25	
22-07-25	
23-07-25	
24-07-25	
25-07-25	
26-07-25	
Week 3	
28-07-25	
29-07-25	
30-07-25	
01-08-25	
02-08-25	
Week 4	
04-08-25	DBMS introduction
05-08-25	Database system applications
06-08-25	History of database system
07-08-25	DB vs. file processing system
08-08-25	View of data, Data Abstraction
Week 5	
11-08-25	Instances and schemas
12-08-25	DBMS Environment
13-08-25	Data base languages, DB Models.

14-08-25	Revision of Unit-12.
Week 6	
18-08-25	Test
19-08-25	Database Design & ER Model
20-08-25	Physical Model
21-08-25	Conceptual & logical DB design.
22-08-25	—
23-08-25	—
Week 7	
25-08-25	ER-Model: Entities, Relationships
26-08-25	Representation of entities
27-08-25	Attributes, Representation of relationship
28-08-25	Generalization, Aggregation
29-08-25	—
30-08-25	—
Week 8	
01-09-25	Conceptual design with ER Model
02-09-25	"
03-09-25	Revision of Unit-12
04-09-25	Test.
06-09-25	—
Week 9	
08-09-25	Relational Model: Intro. Attributes, Domains
09-09-25	Tuples, Relation & their schemes.
10-09-25	Relation representation
11-09-25	Keys, relationship, relational operations
12-09-25	—
13-09-25	—
Week 10	
15-09-25	Integrity Constraint Over relations
16-09-25	Enforcing Integrity constraints
17-09-25	Querying relational data
18-09-25	Views: Intro. to Views.
19-09-25	—
20-09-25	—

Week 11	
24-09-25	Destroying / altering views.
25-09-25	Relational Algebra & Calculus.
26-09-25	—
27-09-25	—
Week 12	
29-09-25	Test.
30-09-25	Normalization: Schema Refinement, Problems
01-10-25	Decomposition: 1st, 2nd, 3rd & BCNF
03-10-25	—
04-10-25	—
Week 13	
06-10-25	Multivalued Dependencies, Join Dependencies
08-10-25	Transaction Management & Concurrency Control
09-10-25	ACID, transaction & schedules
10-10-25	—
11-10-25	—
Week 14	
13-10-25	Serializability & Recoverability
	—
	—
	—
Week 15	
23-10-25	Lock based / Lock management, conversion
24-10-25	—
25-10-25	—
Week 16	
27-10-25	Dealing with deadlock, concurrency without locking
28-10-25	Crash Recovery & Backup
29-10-25	Failure, storage, recovery, Atomicity & log base
30-10-25	Recovery with concurrent transaction
31-10-25	—
01-11-25	—
Week 17	
03-11-25	Failure with loss of nonvolatile storage
04-11-25	

06-11-25	Test of unit - ITSec
07-11-25	—
08-11-25	—
Week 18	
10-11-25	Database backup & recovery
11-11-25	catastrophic failure
12-11-25	"
13-11-25	Remote backup systems
14-11-25	—
15-11-25	—
Week 19	
17-11-25	Revision
18-11-25	"

TIKA RAM GIRLS COLLEGE SONIPAT

Lesson Plan Format

Name of Assistant/Associate Professor

Reena

Class and Section

BCA 2nd year

Subject

operating System

Week 1	Description
15-07-25	
16-07-25	
17-07-25	
18-07-25	
19-07-25	
Week 2	
21-07-25	
22-07-25	
23-07-25	
24-07-25	
25-07-25	
26-07-25	
Week 3	
28-07-25	Introduction of operating System
29-07-25	operating System Services
30-07-25	Types of operating System.
01-08-25	
02-08-25	
Week 4	
04-08-25	Types of operating System.
05-08-25	Process management
06-08-25	Cooperating Processes
07-08-25	Threads
08-08-25	
Week 5	
11-08-25	Inter process communication
12-08-25	CPU Scheduling basic concepts
13-08-25	Scheduling criteria

14-08-25	Scheduling algorithm
Week 6	
18-08-25	FCFS, SJF
19-08-25	Round - Robin & Queue Algorithm
20-08-25	"
21-08-25	"
22-08-25	
23-08-25	
Week 7	
25-08-25	Dead locks
26-08-25	Dead locks characterization
27-08-25	Methods for handling deadlock
28-08-25	"
29-08-25	
30-08-25	
Week 8	
01-09-25	Memory management
02-09-25	logical versus physical addr. space
03-09-25	swapping
04-09-25	contiguous allocation
06-09-25	
Week 9	
08-09-25	Paging
09-09-25	Segmentation
10-09-25	Demand Paging
11-09-25	"
12-09-25	
13-09-25	
Week 10	
15-09-25	Performance of demand Paging
16-09-25	Page replacement Algorithms
17-09-25	Algo.
18-09-25	Algo.
19-09-25	
20-09-25	

Week 11	
24-09-25	Thrashing
25-09-25	"
26-09-25	Test
27-09-25	Test
Week 12	
29-09-25	Basic I/O Devices.
30-09-25	Types of I/O Devices
01-10-25	Block and Character Devices
03-10-25	I/O Software.
04-10-25	
Week 13	
06-10-25	User Space I/O and Kernel I/O S/C
08-10-25	Device Controllers.
09-10-25	Device Drivers
10-10-25	Interrupt handlers.
11-10-25	
Week 14	
13-10-25	Special Instruction I/O.
Week 15	
23-10-25	Memory mapped I/O
24-10-25	DMA
25-10-25	Disk structure
Week 16	
27-10-25	Disk scheduling Algo.
28-10-25	"
29-10-25	"
30-10-25	"
31-10-25	
01-11-25	
Week 17	
03-11-25	File management
04-11-25	File system structure

06-11-25	Allocation methods.
07-11-25	"
08-11-25	
Week 18	
10-11-25	Free Space management
11-11-25	"
12-11-25	"
13-11-25	"
14-11-25	
15-11-25	
Week 19	
17-11-25	Revision
18-11-25	Revision