PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF CSE (AI-ML)

Subject Name: -Programming Language SubjectCode: -ES-CS-AIML-209A 3rd Sem

LESSON PLAN

Sr.No.	Topics To Be Covered	CO Covered	Assignment	Teaching
1	A brief history Characteristics of a good programming language	CO1	Assignment-1	White board
2	Programming language translator's compiler and interpreters	CO1	Assignment-1	White board
3	Elementary data types – data objects, variable and constants	CO1	Assignment-1	White board
4	data types. Specification and implementation of elementary data types, Declarations typechecking and type conversions	CO1	Assignment-1	White board
5	Assignment and initialization, Numeric data type enumerations, Booleans and characters.	CO1	Assignment-1	White board
6	Syntax and Semantics: -introduction, general problem describing syntax	CO1	Assignment-1	White board
7	Formal method of describing syntax, attribute grammar dynamic semantic	CO1	Assignment-1	White board
8	Structured data objects anddata types, specificationand implementationof structured data types	CO2	Assignment-1	PPT
9	Declaration and type checking of data structure, vector and arrays	CO2	Assignment-1	PPT
10	records Character strings, variable size data structure	CO2	Assignment-1	PPT
11	programmer defined data objects, sets, files.	CO2	Assignment-1 Assignment-1	PPT
12	Evolution of data type concept abstraction, encapsulation and information hiding	CO2	Assignment-1	PPT
13	Subprograms, type definitions, abstract data types	CO2	Assignment-1	PPT
14	Overloaded subprograms, generic subprograms.	CO2	Assignment-1	PPT
15	Implicit and explicit sequence control,	CO3	Assignment-1	White board
16	sequence control within expressions	CO3	Assignment-1	White board
17	sequence control within statement,	CO3	Assignment-1	White board
18	Subprogram sequence control: simple call return	CO3	Assignment-1	White board
19	Recursivesubprograms, Exceptionand exception handlers,	CO3	Assignment-1	White board
20	Co-routines, sequence control	CO3	Assignment-1	White board
21	Concurrency – subprogram levelconcurrency, synchronization through semaphores,	CO3	Assignment-1	White board
22	monitors and message passing.	CO3	Assignment-2	White board
23	**Data Control:** Names and referencing environment,	CO4	Assignment-2	Smart Board

24	static and dynamic scope	CO4	Assignment-2	Smart Board
25	block structure, Local data and local referencing environment	CO4	Assignment-2	Smart Board
26	Shared data: dynamic and static scope	CO4	Assignment-2	Smart Board
27	, Parameter and parameter transmission schemes.	CO4	Assignment-2	Smart Board
28	Storage Management and Programming Languages:	CO5	Assignment-3	Smart Board
29	Major run time elements requiring storage	CO5	Assignment-3	Smart Board
30	programmer and system-controlled storage management and phases	CO5	Assignment-3	Smart Board
31	Static storage management	CO5	Assignment-3	Smart Board
32	Stack based storage management	CO5	Assignment-3	Smart Board
33	Heap storage management, variable and fixed size elements	CO5	Assignment-3	Smart Board
34	Introduction to procedural, non-procedural	CO6	Assignment-4	Smart Board
35	structured, logical	CO6	Assignment-4	Smart Board
36	functional and object-oriented programming language	CO6	Assignment-4	Smart Board
37	Comparison of C and C++ programming languages	CO6	Assignment-4	Smart Board