



DEPARTMENT OF INFORMATION TECHNOLOGY

Course Code / Name : U15CS101 / Fundamentals of Computing and C Programming

Class (Year / Programme / Department / Section): I/B.Tech/IT

LESSON PLAN

UNIT -1 (COMPUTER FUNDAMENTALS)

Session No	Topics	Duration in minutes	Teaching Aid	Book Referred
1	Introduction	45	BB	R5
2	Evolution	45	BB	R5
3	Generation	45	BB	R5
4	Classification	45	BB	R5
5	Components of Computer Systems	45	BB	R5
6	Application	45	BB	R5
7	Evolution of Internet	45	BB	R5
8	Classification of Programming Languages	45	BB	R5
9	Algorithm	45	BB	R5
10	Pseudo Code	45	BB	R5
11	Flowchart.	45	BB	R5
12	Revision	45	-	-

UNIT 2(FUNDAMENTALS OF C)

1	Introduction	45	BB	R5
2	Identifier, Keywords, ,	45	BB	R5
3	Variables	45	BB	R5
4	Data types of C, Constants	45	BB	R5
5	Operators and Expression	45	BB	R5
6	Type conversion in C	45	BB	R5
7	Formatted Input and Output functions	45	BB	R5

8	Decision Making and Branching	45	BB	R5
9	Conditional Operators	45	BB	R5
10	Switch Statement, While Construct	45	BB	R5
11	GOTO statements, Nested Loops	45	BB	R5
12	Revision	45	-	-
<b><u>UNIT 3 (ARRAYS AND STRINGS)</u></b>				
1	Introduction	45	BB	R5
2	One Dimensional Arrays	45	BB	R5
3	Working with 1D Array	45	BB	R5
4	Strings	45	BB	R5
5	String Manipulations	45	PPT	R5
6	N Dimensional Array	45	BB	R5
7	Working with 2D Arrays	45	BB	R5
8	Arrays of Strings	45	BB	R5
9	Manipulating String Arrays	45	BB	R5
10	Revision	45	-	-
<b><u>UNIT 4 (FUNCTIONS AND POINTERS)</u></b>				
1	Concept of Function	45	PPT	R5
2	User Defined Functions	45	BB	R5
3	Scope Rules	45	BB	R5
4	Storage Classes	45	BB	R5
5	Recursion	45	PPT	R5
6	Common Errors	45	BB	R5
7	Pointers: Void and Null Pointers	45	BB	R5
8	Arrays and Pointers	45	BB	R5
9	Pointer and Strings	45	BB	R5
10	Pointer Arithmetic	45	BB	R5
11	Dynamic Memory Allocation	45	BB	R5
12	Revision	45	-	-

**UNIT 5(USER DEFINED DATA TYPES & VARIABLES)**

<b>1</b>	<b>Introduction</b>	<b>45</b>	<b>BB</b>	<b>R5</b>
<b>2</b>	<b>Structures</b>	<b>45</b>	<b>PPT</b>	<b>R5</b>
<b>3</b>	<b>Structures within Structures</b>	<b>45</b>	<b>PPT</b>	<b>R5</b>
<b>4</b>	<b>Array of Structures</b>	<b>45</b>	<b>PPT</b>	<b>R5</b>
<b>5</b>	<b>Array within Structures</b>	<b>45</b>	<b>PPT</b>	<b>R5</b>
<b>6</b>	<b>Structures and Pointers</b>	<b>45</b>	<b>BB</b>	<b>R5</b>
<b>7</b>	<b>Structures and Functions</b>	<b>45</b>	<b>BB</b>	<b>R5</b>
<b>8</b>	<b>Union</b>	<b>45</b>	<b>BB</b>	<b>R5</b>
<b>9</b>	<b>Enumeration Types</b>	<b>45</b>	<b>BB</b>	<b>R5</b>
<b>10</b>	<b>Bit Fields</b>	<b>45</b>	<b>BB</b>	<b>R5</b>
<b>11</b>	<b>Revision</b>	<b>45</b>	<b>-</b>	<b>-</b>