Lesson Plan (3rd Semester)

Name of Faculty: **Asad Kamal**
Designation : **Lecturer in Computer**
Engg.Discipline : **Computer Engg.**
Semester : **3rd**
Subject : **PIC**
Lesson Plan Duration: 15 Weeks
Work Load (Lecture/Practical) per week(In hours): 03-Lectures (1hr. each) / 02-Practicals (2hrs. each).

Week	Theory			Practical	
	Lecture Day	**Topic(including assignment/Test)**		**Practical Day**	**Topic**
1st	1st	Algorithm and Programming Development-Steps in development of a program		1st	**Programming exercises on executing and editing a C program.**
	2nd	Flow charts			
	3rd	Algorithm development, Program Debugging		2nd	Revision of Practical Covered on the last day.
2nd	1st	I/O statements		3rd	**Programming exercises on defining variables and assigning values to variables**
	2nd	assign statements			
	3rd	Constants, variables, data types		4th	Revision of Practical Covered on the last day.
3rd	1st	Operators		5th	**Programming exercises on arithmetic and relational**
	2nd	Expressions			
	3rd	Unformatted and Formatted IOS		6th	Revision of Practical Covered on the last day.
4th	1st	Data Type Casting		7th	**Programming exercises on arithmetic expressions and their evaluation**
	2nd	**Revision of Unit 1 & Unit 2**			
	3rd	**Assignment 1- Unit1 & Unit 2 and class test**		8th	Revision of Practical Covered on the last day.
5th	1st	Control Structures - Introduction		9th	**Programming exercises on formatting input/output using printf and scanf and their return**
	2nd	Decision making with IF – statement			
	3rd	IF – Else, nested-if statement		10th	Revision of Practical Covered on the last day.
6th	1st	While Loop		11th	**(i) Programming exercises using if statement (ii)Programming exercises usig if – Else**
	2nd	do-while Loop, for loop			
	3rd	Break. Continue statements		12th	Revision of Practical Covered on the last day.
7th	1st	goto and switch statements		13th	**Programming exercises on switch statement**

	2nd	**Revision of Unit 3**		
	3rd	Pointers- Introduction to pointers	14th	Revision of Practical Covered on the last day.
8th	1st	Address operator	15th	**Programming exercises on do – while, statement**
	2nd	Address operator and pointers		
	3rd	Declaring and initialising pointers	16th	Revision of Practical Covered on the last day.
9th	1st	Single pointer	17th	**Programming exercises on for – statement**
	2nd	**Revision of Unit 4**		
	3rd	Functions-Introduction to functions	18th	Revision of Practical Covered on the last day.
10th	1st	Global and Local Variables	19th	**Simple programs using pointers**
	2nd	Function Declaration		
	3rd	Standard functions	20th	Revision of Practical Covered on the last day.
11th	1st	Parameters and Parameter Passing	21st	**Programs on one-dimensional array**
	2nd	Call - by value and Call-by reference		
	3rd	**Revision of Unit 5**	22nd	Revision of Practical Covered on the last day.
12th	1st	**Class test**	23rd	**Programs on two-dimensional array**
	2nd	**Assignment 2- Unit 3,Unit4 & Unit 5**		
	3rd	Arrays & String-Introduction to arrays, Array Declaration, Length of array	24th	Revision of Practical Covered on the last day.
13th	1st	Single and Multidimensional Arrays	25th	**(i) Programs for putting two strings together.** **(ii) Programs for comparing two strings.**
	2nd	Arrays of characters		
	3rd	Introduction of Strings-String declaration and definition, string functions	26th	Revision of Practical Covered on the last day.
14th	1st	Passing an array to function	27th	**Simple programs using functions**
	2nd	Pointers to an array and pointers to strings		
	3rd	**Revision of Unit 6**	28th	Revision of Practical Covered on the last day.
15th	1st	Structures and Unions -Declaration of structures	29th	**Simple programs using Structures and unions**
	2nd	Accessing structure, union members and structure, union initialization		
	3rd	Pointer to a structures and **Revision-Unit 7.**	30th	Revision of Practical Covered on the last day.