B. Sc (Information Technology)		Semester – I	
Course Name: Imperative Programming Practical		Course Code: USIT1P2	
Periods per week (1 Period is 50 minutes)		3	
Credits		2	
		Hours	Marks
<b>Evaluation System</b>	Practical Examination	21/2	50
	Internal		

st of	Practical: (Can be done in any imperative language)	
1.	Basic Programs:	
a.	Write a program to display the message HELLO WORLD.	
b.	Write a program to declare some variables of type int, float and double. Assign	
	some values to these variables and display these values.	
c.	Write a program to find the addition, subtraction, multiplication and division of	
	two numbers.	
2.	Programs on variables:	
a.	Write a program to swap two numbers without using third variable.	
b.	Write a program to find the area of rectangle, square and circle.	
c.	Write a program to find the volume of a cube, sphere, and cylinder.	
3.	Conditional statements and loops(basic)	
a.	Write a program to enter a number from the user and display the month name. It	
	number >13 then display invalid input using switch case.	
b.	Write a program to check whether the number is even or odd.	
c.	Write a program to check whether the number is positive, negative or zero.	
d.	Write a program to find the factorial of a number.	
e.	Write a program to check whether the entered number is prime or not.	
f.	Write a program to find the largest of three numbers.	
4.	Conditional statements and loops(advanced)	
a.	Write a program to find the sum of squares of digits of a number.	
b.	Write a program to reverse the digits of an integer.	
	Write a program to find the sum of numbers from 1 to 100.	
C.	= =	
d.	Write a programs to print the Fibonacci series.	
e.	Write a program to find the reverse of a number.	
f.	Write a program to find whether a given number is palindrome or not.	
g.	Write a program that solve the quadratic equation	
	$-b\pm\sqrt{b^2-4ac}$	
	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$	
h.	Write a program to check whether the entered number is Armstrong or not.	
i.	Write a program to count the digit in a number	
	1 0	
5.	Programs on patterns:	
	Programs on different patterns.	

6.	Functions:	
a.	Programs on Functions.	
7.	Recursive functions	
a.	Write a program to find the factorial of a number using recursive function.	
b.	Write a program to find the sum of natural number using recursive function.	
8.	Arrays	
a.	Write a program to find the largest value that is stored in the array.	
b.	Write a program using pointers to compute the sum of all elements stored in an	
	array.	
c.	Write a program to arrange the 'n' numbers stored in the array in ascending and	
	descending order.	
d.	Write a program that performs addition and subtraction of matrices.	
e.	Write a program that performs multiplication of matrices.	
9.	Pointers	
a.	Write a program to demonstrate the use of pointers.	
b.	Write a program to perform addition and subtraction of two pointer variables.	
10.	Structures and Unions	
a.	Programs on structures.	
b.	Programs on unions.	