Course code	Course Name	L-T-P - Credits	Year of Introduction
AU232	**COMPUTER PROGRAMMINGLAB**	**0-0-3-1**	**2016**
Prerequisite: AU208 Computer programming			

Course Objectives

- To provide experience in programming with C language

- To give exposure to computer softwares like MATLAB.

- To do programming in C covering control structures functions, arrays, structures, pointers and files

List of Exercises/Experiments :

1. Checking leap year
2. Finding sum of digits and reverse of a number
3. Generating Prime numbers, Fibonacci numbers and Armstrong numbers
4. Sine and Cosine series generation
5. Counting characters, lines and words
6. Linear search
7. Sorting of numbers and strings
8. Matrix addition, transpose and multiplication
9. Programs using structure and union
10. Programs using functions
11. Programs using recursive calls
12. Programs using macros
13. Programs using pointers
14. Matrix operation using pointers
15. Implementation of dynamic memory allocation
16. Problems related to file reading, writing and appending
17. Transfer of data in blocks
18. Familiarization of MATLAB tool boxes

Expected outcome.

After this course students will be able to do simple programs in C language and will be familiar with the interface

Text Book:

Bryon S. Gottfried,*Programming with C Language*.