JYOTI NIVAS COLLEGE AUTONOMOUS
SYLLABUS FOR 2018 BATCH AND THEREAFTER

Programme: B.C.A **Semester: IV**

UNIX PROGRAMMING- LAB

Course Code: 18BCAIVP1 **No. of Hours: 60**

COURSE OBJECTIVES:

- Use a variety of standard Unix commands
- Pipe simple commands together to create powerful compound commands

LEARNING OUTCOMES:

- Use the standard Unix editor 'vi'
- Students learn to write shell script and debug

PART – A

1. Shell script implementing ten UNIX commands.
2. Shell script to create multiple files and copy it to another directory.
3. Shell script to design a calculator demonstrating while loop.
4. Write a menu-driven program according to choices:
   a. Check if a given number is even or odd.
   b. Check if the number is prime or not, demonstrating break statement
5. Shell script to convert the given decimal number to binary and vice-versa demonstrating basic calculator.
6. Write a program to check whether the user is logged in or not and send a mail demonstrating pipelining.
7. Write a program to replace or delete a pattern from the given file demonstrating filter command **tr**.
8. Write a program accept a string from user reverse it and check if it is palindrome or not also count the vowels demonstrating string library functions.
9. Write a program to find factorial of a number using recursion
10. Shell script to create a data file and perform copy, rename, append, display and delete file also demonstrating file manipulation commands.
11. UNIX program demonstrating AWK and SED with options.
12. Write a program which uses fork()& wait() system call to create a child process and display an appropriate message.

PART B

Write a menu based (with at least 3 options) shell program for the following

1. Payroll system
2. Electricity bill
3. Mark List processing system