BACHELOR OF COMPUTER APPLICATIONS (BCA_NEWOL)

BCA_NEWOL /ASSIGN/SEMESTER-II

ASSIGNMENTS

(January - 2026 & July - 2026)

FEG-02, MCS-202, MCS-203, MCSL-204, MCS-201, MCSL-205,

SCHOOL OF COMPUTER AND INFORMATION SCIENCES

INDIRA GANDHI NATIONAL OPEN UNIVERSITY
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Important Notes

1. Submit your assignments through the Learning Management System (LMS) on or before the due date.
2. Assignment submission before due dates is compulsory to become eligible for appearing in corresponding Term End Examinations. For further details, please refer to BCA_NEWOL Programme Guide.
3. To become eligible for appearing the Term End Practical Examination for the lab courses, it is essential to fulfill the minimum attendance requirements as well as submission of assignments (on or before the due date). For further details, please refer to the BCA_NEWOL Programme Guide.

Course Code	**:**	**MCSL-204**
Course Title	**:**	**WINDOWS and LINUX Lab**
Assignment Number	**:**	**BCA_NEWOL(II)/L-204/Assignment/2026**
Maximum Marks	**:**	**100**
Weightage	**:**	**30%**
Last date of submission	**:**	**30th April, 2026 (For January Session)** **31st October, 2026 (For July Session)**

The assignment has two parts A and B. Answer all the questions. Each part is for 20 marks. WINDOWS and LINUX lab record carries 40 Marks. Rest 20 marks are for viva voce. You may use illustrations and diagrams to enhance the explanations. Please go through the guidelines regarding assignments given in the PGDCA Programme Guide for the format of presentation. If any assumptions made, please state them.

PART-I: Windows 10

Question 1: For Windows 10, write the step-by-step procedure for the following along with the screen-shots are execution for each:

i. To create a new user account in Windows 10 and change it from a standard user to an administrator.
ii. To customize the Windows 10 desktop by changing the background, theme, and taskbar settings.
iii. To create, rename, copy, move, and delete files and folders using File Explorer.
iv. To install an application from the Microsoft Store and uninstall it using Windows Settings.
v. To view running processes and end a task using the Windows 10 Task Manager.
vi. To configure and use Remote Desktop to connect to another computer.
vii. To check disk usage and perform Disk Cleanup in Windows 10.
viii. To enable Windows Defender and perform a quick virus scan.
ix. To create a backup of files and restore a previous version in Windows 10.
x. To use Command Prompt to check the IP configuration and network connectivity.

(10 X 2=20 Marks)

PART-II: LINUX

Question 1:

Write the LINUX commands for the following:

i. To list all files (including hidden files) in long format and redirect the output to a file named details.txt.
ii. To find all .txt files in the current directory and its subdirectories and display their absolute paths.
iii. To change file permissions so that the owner has read, write, and execute permissions, the group has read and execute permissions, and others have only read permission.
iv. To display the top five processes consuming the highest CPU using appropriate process-related commands.
v. To search for the word IGNOU in all text files of the current directory, ignoring case sensitivity.

(5 Marks)

Question 2:

i. Write a shell script to accept a filename as input and display the number of lines, words, and characters in the file.
ii. Write a shell script to accept two numbers from the user and display the largest number using conditional statements.
iii. Write a shell script to read a directory name and list all files having read permission for the user.
iv. Write a shell script to display the sum of first n natural numbers using a loop, where n is entered by the user.
v. Write a shell script to accept a string from the user and check whether it is a palindrome.

(5 X 3 = 15 Marks)