



रा.इ.सू.प्रौ.सं  
**NIELIT**

राष्ट्रीयइलेक्ट्रॉनिकीएवंसूचनाप्रौद्योगिकीसंस्थान,कालीकट  
National Institute of Electronics & Information Technology, Calicut



सत्यमेव जयते

Ministry of Electronics and  
Information Technology  
Government of India

# Online Course Prospectus

*ISO 9001-2015 Certified*

## Certificate Course on Linux Shell Scripting

**Starting Date: 7<sup>th</sup> June 2024  
(3 weeks, 5 Hours Daily)**

### Course Description

This course is designed to make the participants capable of solving problems using shell (bash) programming in Linux. Linux shell script writers are needed because they can help to automate tasks, improve efficiency, increase accuracy, simplify complex tasks, and create custom tools and utilities. Shell scripts are a powerful tool that can be used to make Linux systems more efficient and productive.

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**Course Name:** Certificate Course on Linux Shell Scripting

**Course Code:** LSW901

**Duration:** 3 weeks / 75 Hours

5 Hours per day (Live sessions, Recorded sessions, Assignments etc.)

Online class Timing: 2:30 PM onwards

**Course Fee:** ₹2,000/- (Including GST)

**Starting Date:** 7<sup>th</sup> June 2024

**Coordinator:** Shri. Prasoon Kumar K G, 9447305951, [prasoon@calicut.nielit.in](mailto:prasoon@calicut.nielit.in)

### **Who can attend?**

Anyone who is interested in learning shell scripting & designed for.

- Students pursuing engineering or any computer science degree
- Working Professionals (System administrators)
- Research students
- Teachers

### **Course Content:**

#### **Introduction to Linux (1 day)**

UNIX and Linux, Linux distributions, GNU, Kernel and Shell, Logging in and out.

#### **Command Basics (1 day)**

Structure of a command, PATH variable, internal and external commands, basic general purpose commands.

#### **vi editor (2 days)**

3 modes, navigation, repeat factor, operators, search and replace, mapping keystrokes, handling multiple files, abbreviations, named and numbered buffers, search and replace using regular expressions, customizing the environment.

#### **File system, shell, and processes (1 day)**

File system, types of files, file managing commands, file attributes, links, Wild cards, Redirection, piping, shell variables, exporting variables, checking process status, killing processes, scheduling processes.

### **Filters (1 day)**

Counting lines/words/chars, cutting a file vertically/horizontally, pasting files, translating chars, ordering a file, regular expression based filters-grep and sed.

### **Shell scripting (2 days)**

Scripts, running a script, interactive scripts, positional parameters, logical operators, conditional statements – if and case, looping structures while / until / for, test / expr commands and short cuts computation using let.

### **awk programming (2 days)**

awk basics, syntax of awk, using print and printf, operators and regular expression operators, Number processing, variable, reading the program from a file, The BEGIN and END sections, built in variables, Arrays, if conditional statement, looping using for and while.

### **Project Work (1 Week).**

The participants have to do a mini project using real data.

### **Prerequisite (optional):**

Nil

*In case students are not able to attend online live classes, the recorded lectures of all major classes are available in our Learning Management System (LMS). Students can access LMS by entering their **user name** and **password** and they can do offline reference and learn at their own pace and timings, during the course period. After attending the recorded lectures students can submit their assignments and interact through email / LMS / WhatsApp.*

### **Course Fee and important dates:**

Course fee	₹2,000/- (Including GST)
Last date for registration & payment	6 <sup>th</sup> June 2024
Sharing of online Link / passwords & other details	7 <sup>th</sup> June 2024 @ 11:00 AM

## **Faculty Profile:**

All faculty members involved in the course are having post graduate degrees in computer applications with several years of experience in the IT field.

## **Course Coordinator:**

Shri. Prasoon Kumar K G

Scientist-D

9447305951, 0495-2287266 (O)

e-mail: prasoon@calicut.nielit.in

## **Certificate:**

Digitally signed certificate of successful completion will be mailed to the registered email id after completion of course.

(Courses having evaluation in the end are entitled for successfully completed certification. In other cases only participation certificate will be issued. In both cases 60% attendance and feedback are mandatory.)

## **Terms and Conditions:**

- 1. In case any registered candidate could not attend the online session due to technical issue at their side there will not be any refund of the course fee and the sessions will not be repeated*
- 2. In case the online course is cancelled /postponed due to some technical issue at NIELIT side and new date is not convenient to the candidate, our liability is limited to the refund of the course fee and NIELIT shall not be responsible for any consequential damages.*
- 3. 60% attendance and feedback submission are mandatory for awarding 'participation' certificate. For courses with assessment, 'successfully completed certificate' will be awarded subject to the candidate passing the test with minimum 50% marks, minimum 60% attendance and feedback submission.*

For more details about our institution and facilities visit us

Website: <https://www.calicut.nielit.in/>

Twitter: [https://twitter.com/CAL\\_NIELIT](https://twitter.com/CAL_NIELIT)

Facebook: <https://www.facebook.com/CAL.NIELIT>

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*An Autonomous Scientific Society of  
Ministry of Electronics & Information Technology,  
Govt. of India*



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