



NEW HORIZON COLLEGE OF ENGINEERING

Workshop
on
“Exploring Real-Time Testing Workflows”
Organised by
Department of MCA

Date: 13th December 2025

Venue: MCA Lab

Brief Description of the Event

The workshop on Exploring Real-Time Testing Workflows was conducted with a focus on Linux and Shell Scripting to help students understand how testing is carried out for command-line-based programs. During the session, MCA students were guided to analyse the given shell scripts and systematically design test cases covering different input conditions, edge cases, and expected outputs. The workshop aimed to strengthen students' understanding of script validation, logical correctness, and error handling, and to equip them with practical skills required for writing effective test cases for shell scripts in real-world Linux environments.

Topics Emphasised

Understanding Shell Script Requirements: Students were introduced to analysing problem statements and understanding the expected functionality of shell scripts. This helped them identify inputs, outputs, constraints, and assumptions before writing test cases.

Writing Test Cases for Shell Scripts: The session focused on guiding students to design structured test cases for given shell scripts. Students practiced defining test inputs, expected outputs, and test objectives to validate script logic and functionality.

Testing Input Conditions and Edge Cases: Students were trained to write test cases covering normal inputs, boundary conditions, and invalid inputs. This enabled them to understand how shell scripts behave under different scenarios and improved their ability to detect logical and runtime errors.

Validating Script Output and Error Handling: The workshop emphasised verifying actual outputs against expected results and checking error handling mechanisms. Students learned to write test cases that ensure proper handling of missing files, incorrect arguments, and permission-related issues in Linux environments.

Outcomes:

- Students gained hands-on experience in analysing shell script requirements and understanding expected script behavior.
- Developed the ability to design clear and structured test cases for Linux shell scripts.
- Learned to identify and write test cases for normal, boundary, and invalid input scenarios.
- Understood how to validate script outputs and verify error-handling mechanisms.
- Gained practical exposure to real-time testing workflows for shell scripts in Linux environments.

Activities Conducted

- Demonstration of sample Linux shell scripts and explanation of their intended functionality.
- Guided activity where students analysed shell scripts and identified possible test scenarios.
- Hands-on exercise in writing test cases for shell scripts covering valid, invalid, and edge-case inputs.
- Interactive discussion on verifying outputs, handling errors, and debugging scripts in a Linux environment.
- Q&A and interaction session focusing on real-time testing workflows, testing roles, and expectations in industry-level system and script testing.

No of Participants: 44

Winners (if any, for activities conducted): NA

Guest Details: (Name, Designation, Organisation, Location) :

Mr Bronson Takhellambam,
Test Engineer, LG Soft India, Bangalore

Photographs of the Event



Workshop

Exploring Real-Time Testing Workflows

 13th December 2025

 MCA Lab

 12:00 PM – 03:00 PM

 1st Semester MCA Students



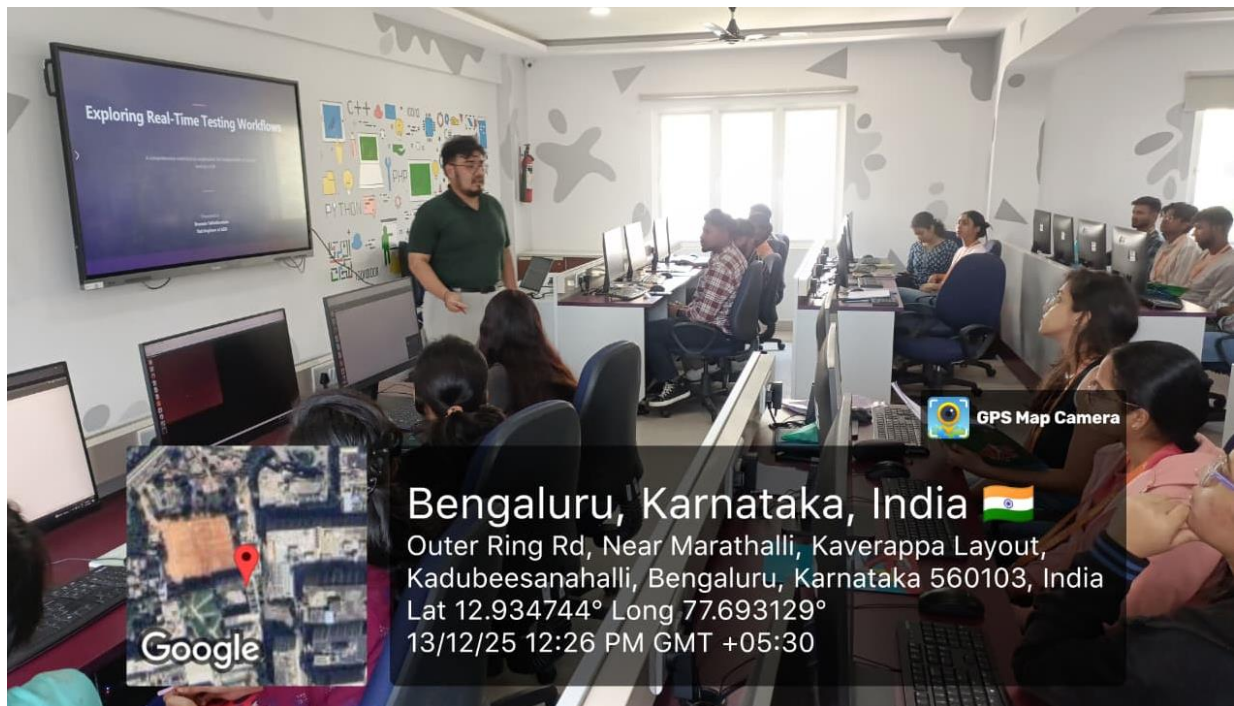
Mr. Bronson Takhellambam
Test Engineer
LG Soft India

Coordinator
Dr. Arpana Prasad
Associate Professor - MCA

Convenor
Dr. V Asha
Professor & HoD - MCA

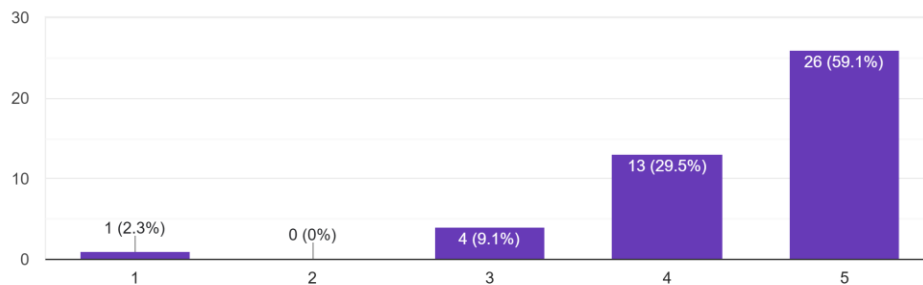
Organised by
Department of Master of Computer Applications



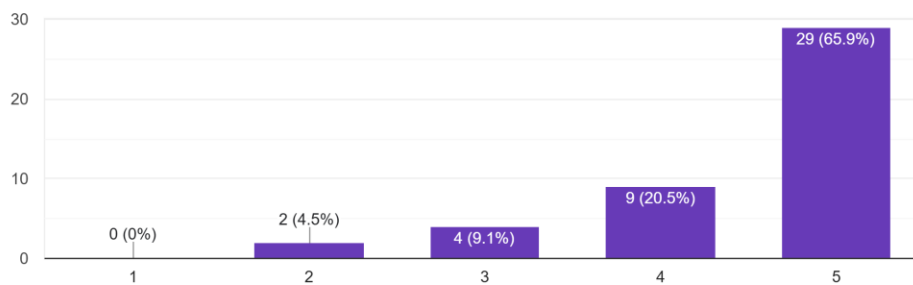


Feedback

Quality of the content delivered and demonstrated
44 responses

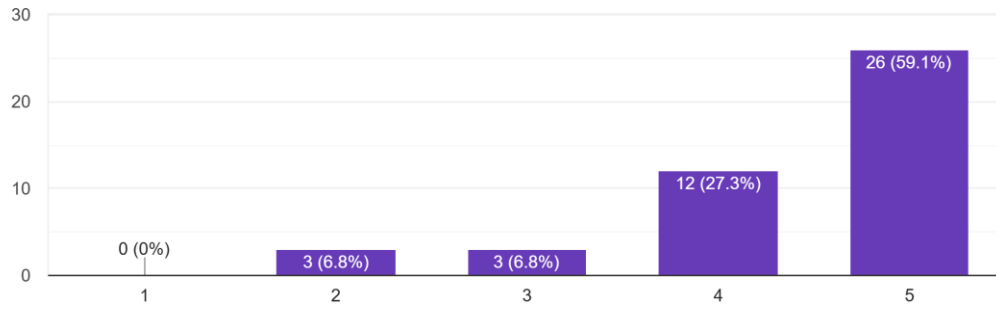


Clarity of the presentation and hands on
44 responses



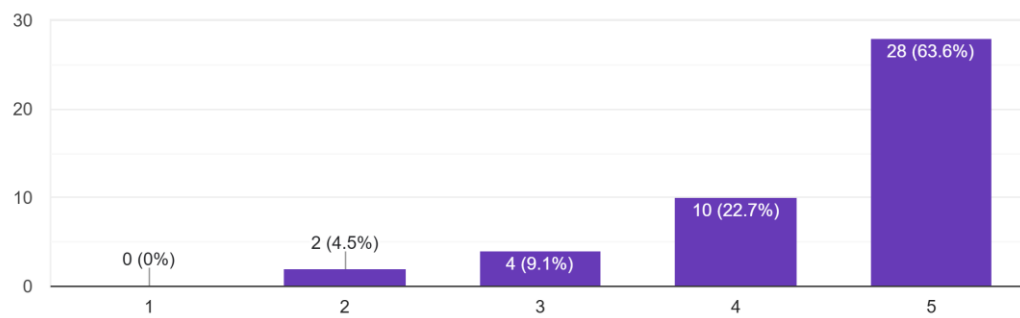
Effectiveness of the examples depicted during the session.

44 responses



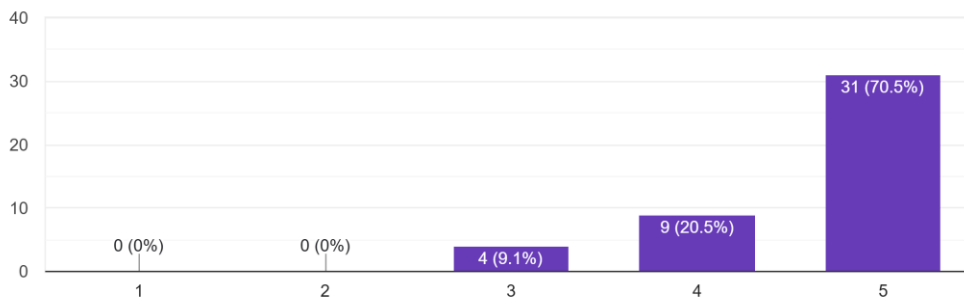
Level of achievements of topics in learning data usage

44 responses



Rate the relevance of the topic to future study and work

44 responses



Dr Arpana Prasad
Faculty Coordinator

Dr V Asha
HoD MCA

Head of the Department
Department of Master of Computer Applications
NEW HORIZON COLLEGE OF ENGINEERING
2nd Road, Bellandur Post, Bengaluru - 560 105

Attendance

WORKSHOP : "Exploring Real-Time Testing Workflows"



DEPARTMENT OF MCA

AY 2025-26

ATTENDANCE SHEET OF PARTICIPANTS

WORKSHOP

TITLE: Exploring Real-Time Testing Workflows

RESOURCE PERSON: Mr. Bronson Takhellambam, Test Engineer at LG Soft India

DATE: 12-12-2025

TIME: 12:00 noon to 2:00 pm

PARTICIPANTS: STUDENTS - MCA SEMESTER I

VENUE: MCA LAB

SERIAL NO	USN NO	NAME	SIGNATURES
1.	25MCA037-T	M THARUN RAJ	<i>M Tharun Raj</i>
2.	25MCA036-T	RAHUL R	<i>Rahul R</i>
3.	25MCA173-T	S. Krishna	<i>S. Krishna</i>
4.	25MCA177-T	NOUFAL K.S	<i>Noufal K.S</i>
5.	25MCA063-T	Kunal Raj	<i>Kunal Raj</i>
6.	25MCA005-T	Mohit Guwanari	<i>Mohit</i>
7.	25MCA054-T	Omkar D Powar	<i>Omkar D Powar</i>
8.	25MCA056-T	Preenana Majalikaar	<i>Preenana Majalikaar</i>
9.	25MCA067-T	Milan . H	<i>Milan H</i>
10.	25MCA095-T	Pavan Kumar . S M	<i>Pavan Kumar . S M</i>
11.	25MCA009-T	RUPAM GIRI	<i>Rupam Giri</i>
12.	25MCA098-T	Preem	<i>Preem</i>
13.	25MCA166-T	PB Likith	<i>PB Likith</i>
14.	25MCA131-T	Prachath R	<i>Prachath R</i>
15.	25MCA070-T	Mohd SAQHIB	<i>Mohd SAQHIB</i>

WORKSHOP: "Exploring Real-Time Testing Workflows"

SERIAL NO	USN NO	NAME	SIGNATURES
16	25MCA020-T	Mehd. Shuaib	Shuaib
17	25MCA012-T	Rahul Raj. M	Rahul Raj. M.
18	25MCA026-T	Rajesh M.	Rajesh
19	25MCA112-T	Rakshitha. C	R.
20	25MCA107-T	Mouna. K	Mouna
21	25MCA114-T	Rakshitha. P. R	Rakshitha
22	25MCA114-T	Pallavi. M	Pallavi
23	25MCA159-T	Mandana. S. A.	Mandana
24	25MCA168-T	Prasanna. K	Prasanna
25	25MCA176	Punith. M	Punith
26	25MCA155	maheesh	Maheesh
27	25MCA030-T	Rohith. R	Rohith. R.
28	25MCA017-T	Deepak. K. Parida	Deepak. K.
29	25MCA129-T	Mohammed Suhaib	Mohammed Suhaib
30	25MCA125-T	Pratik. L. Mungaravadi	Pratik.
31	25MCA100-T	Pavithra Sri Soma	Pavithra
32	25MCA116-T	Poojitha. P. Naikar	P.
33	25MCA109-T	Niveditha. M. H.	N.
34	25MCA033-T	Laya. D	Laya. D.
35	25MCA035-T	Pollani Singh	P.
36	25MCA169-T	Nagashree T. Mesta	Nagashree
37	25MCA181-T	Sahana V. D	Sahana
38	25MCA038-T	Purnanki Das	Purnanki
39	25MCA050-T	Hegha Mondal	Hegha
40	25MCA139-T	Ravikumar K	Ravikumar
41	25MCA027-T	Harsha randhan M	Harsha
42	25MCA015-T	Ratna Priya. A	Ratna Priya

WORKSHOP : “Exploring Real-Time Testing Workflows”

[illegible]

Answer

Dr Arpana Prasad
Faculty Coordinator

✓✓

Dr V Asha
HoD MCA

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