



**NEW HORIZON**  
**COLLEGE OF ENGINEERING**  
New Horizon Knowledge Park, Ring Road, Marathalli  
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC  
Accredited by NAAC with 'A' Grade, Accredited by NBA

**DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS**

**EVENT NAME: Workshop on Performance Engineering  
Excellence with JMeter and LoadRunner**

DATE: 3-12-2025

VENUE: B307

**BRIEF DESCRIPTION OF THE EVENT:**

The workshop aimed to provide students with a strong foundation in performance testing concepts, focusing on how to evaluate application efficiency using JMeter and LoadRunner. The session highlighted the importance of performance engineering in modern software systems, ensuring applications are scalable, stable, and capable of handling real-world workloads. Students gained practical exposure to setting up test plans, monitoring system behavior, and interpreting performance metrics.

**Topics Covered**

**1. Introduction to Performance Engineering**

The resource person explained the need for performance engineering in software development, focusing on responsiveness, scalability, throughput, and user experience. Participants learned the basic terminology such as load, stress, spike, endurance testing, bottlenecks, KPIs, and performance baselines.

**2. JMeter Fundamentals and Hands-On Testing**

Students were introduced to creating test plans, thread groups, samplers, listeners, timers, and assertions in JMeter. They practiced running load tests, analyzing reports, and identifying performance issues. The session included demonstrations on parameterization, correlation, and scripting best practices.

**3. LoadRunner Essentials**

The trainer provided an overview of LoadRunner architecture, including VUGen, Controller, and Analysis components. Students learned to record user actions, generate virtual users, design scenarios, and analyze graphs. Real-time examples showed how to monitor system resources during high user load.

**4. Performance Result Interpretation**

Participants were guided on reading throughput charts, response time graphs, error rates, and system resource utilization.

The session emphasized identifying bottlenecks and recommending improvements based on test results.

**5. Industry Relevance**

Practical insights were shared on how performance testing fits into DevOps, CI/CD pipelines, and large-scale application deployment.

Students understood how tools like JMeter and LoadRunner are used in industry for reliable performance validation.

## **Participant Engagement**

The workshop was completely interactive and hands-on. Students performed live performance tests using sample applications. They configured threads, load levels, and scenarios to observe system behavior under different conditions. The resource person addressed queries related to script debugging, test optimization, and interpreting reports, ensuring thorough conceptual clarity.

## **Key Takeaways**

- Clear understanding of core performance engineering concepts.
- Ability to create and execute load tests using JMeter and LoadRunner.
- Practical skills to analyze performance results and identify bottlenecks.
- Exposure to industry practices in performance testing and monitoring.
- Increased confidence to apply performance engineering techniques in academic and real-world projects.

### **1. Feedback and Outcome**

Students expressed that the workshop was extremely beneficial, especially the hands-on implementation of GitHub Pages and repository management. The practical demonstrations helped bridge the gap between theoretical knowledge and real deployment practices. Many students indicated their willingness to apply these skills in internships and project development.

**ACTIVITIES CONDUCTED:**

#### **1. Hands-On Lab Sessions**

- Hands-on load testing using JMeter
- Scenario creation and execution using LoadRunner
- Monitoring system performance under different user loads
- Interpretation of performance graphs and KPIs
- Q&A and real-time troubleshooting examples

#### **2. Q&A and Real-World Use Cases**

**NO. OF PARTICIPANTS:** 45

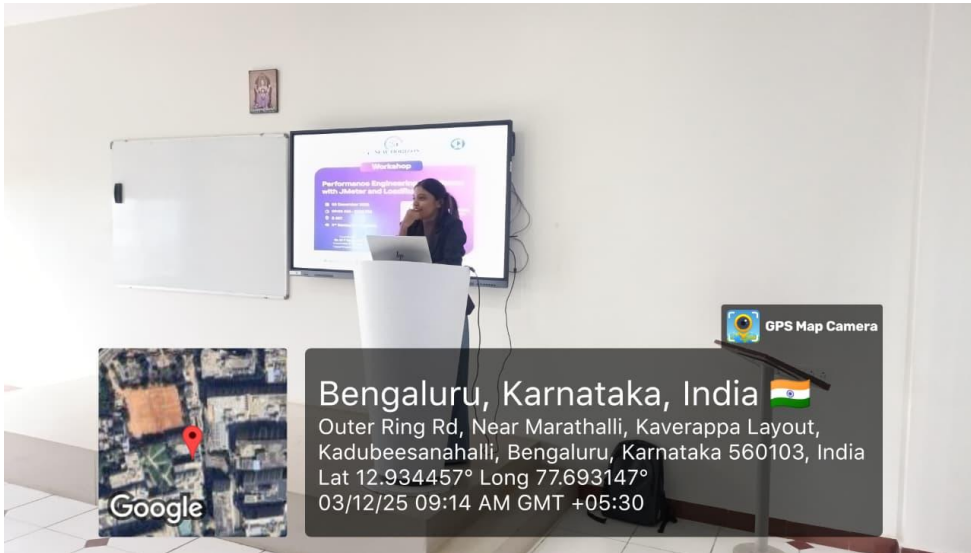
**WINNERS (if any, for activities conducted):** N/A

**GUEST DETAILS:** Ms. Tanushree Paul

Software Engineer

Capgemini

**PHOTOGRAPHS OF THE EVENT:**



POSTER:



## Workshop

# Performance Engineering Excellence with JMeter and LoadRunner

 03 December 2025

 09:00 AM - 12:00 PM

 B 307

 3<sup>rd</sup> Semester Students



**Ms. Tanushree Paul**  
Software Engineer,  
Capgemini,  
Bengaluru

Coordinator  
**Dr. M T Vasumathi**  
Associate Professor,  
Department of MCA

Convenor  
**Dr. V Asha**  
Professor & HoD,  
Department of MCA

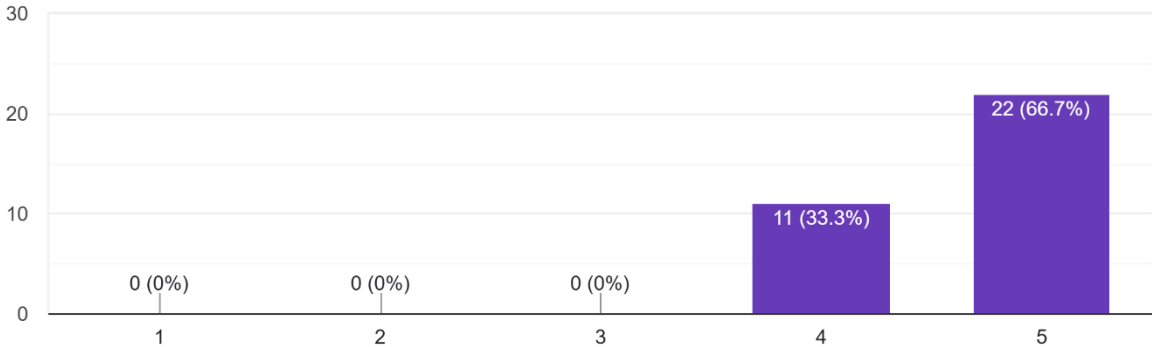
Organised by  
**Department of Master of Computer Applications**



# FEEDBACK FROM STUDENTS

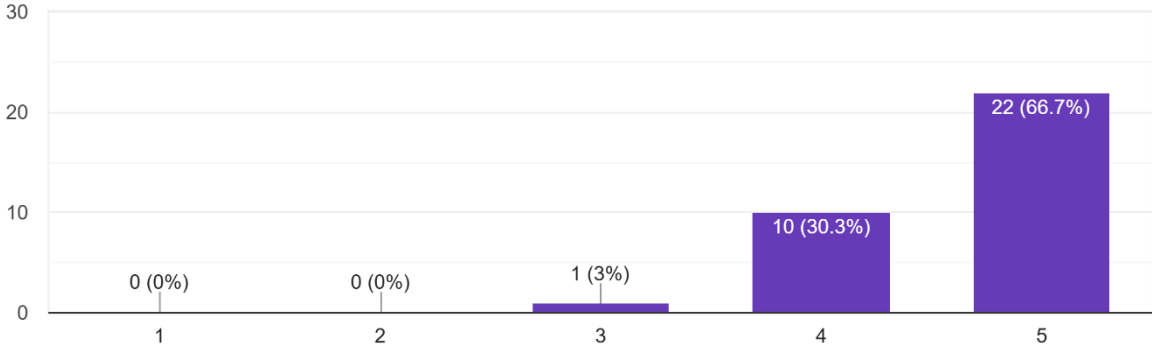
## Quality of the training content

33 responses



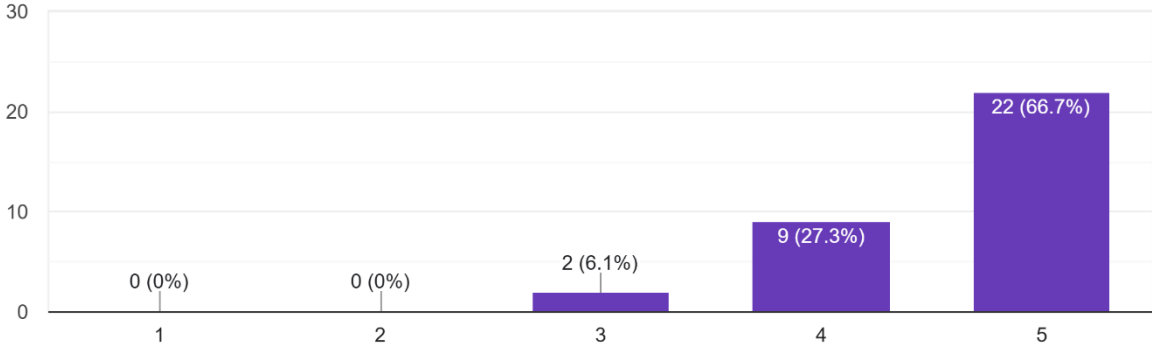
## Clarity of the presentation.

33 responses



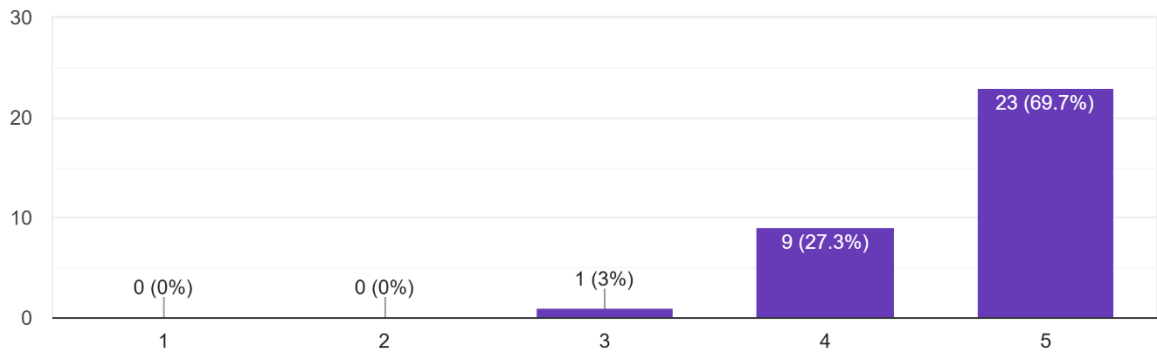
## Effectiveness of the examples depicted during the session.

33 responses



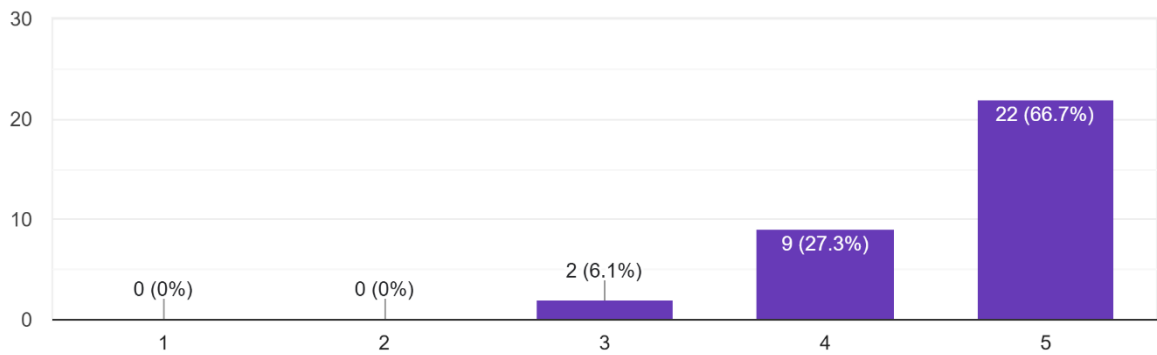
### Level of achievements of topics in Performance Testing

33 responses



### Rate the relevance of the topic to future study and work.

33 responses



*M. T. Vasumathi*

**FACULTY COORDINATOR**

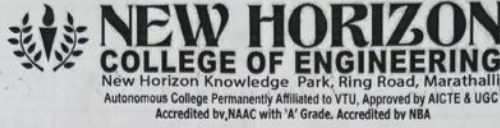
**Dr M T Vasumathi**

*V. Asha*

**HOD-MCA**

**Dr V.Asha**

# ATTENDANCE DETAILS



DEPARTMENT OF MCA

AY 2025-26

ATTENDANCE SHEET OF PARTICIPANTS

WORKSHOP

Performance Engineering Excellence with JMeter and LoadRunner

RESOURCE PERSON: Ms. Tanushree Paul

Software Engineer

Capgemini

DATE: 03-12-2025

TIME: 9:00 am to 12:00 pm

PARTICIPANTS: STUDENTS SEM III

VENUE: B307

SERIAL NO	USN NO	NAME	SIGNATURES
1	1NH24MCO81	Nanda Kishore B.M	
2	1NH24MCO79	Nagaraj. A	
3	1NH24MCO12	Amuth Kumar T J	
4	1NH24MCO67	Madhu. G.N	
5	1NH24MCO116	Sandeep Lalchman-Potdar	
6	1NH24MCO117	Sanketh	
7	1NH24MCO71	mahamed Sahid	
8	1NH24MCO64	M.N. Yashwanth. Kumar	
9	1NH24MCO37	chirutha venkatesh	
10	1NH24MCO02	Abhishek.G.H	
11	1NH24MCO24	Avinash, M. Kumble	
12	1NH24MCO46	Ganesh.R	

SERIAL NO	USN NO	NAME	SIGNATURES
13	INH24MC036	Chintha Jayants	
14	INH24MC022	Ashish Padukone	
15	INH24MC040	00SIGNON	
16	INH24MC034	Chandra	
17	INH24MC147	Thiripathi M.V	
18	INH24MC114	Sakshi Salu	
19	INH24MC059	Karishma Singh	
20	INH24MC030	Rhanupriya K	
21	INH24MC039	Dakshayini Goud	
22	INH24MC029	Bhagavati	
23	INH24MC164	Harshitha S	
24	INH24MC016	Ananya MN	
25	INH24MC019	Anugunt Sandhya	
26	INH24MC068	K.Madhu Kumar	
27	INH24MC016	Mishel P Kuld	
28	INH24MC017	Haribind J.P	
29	INH24MC007	Agnay E.T	
30	INH24MC041	Deekshitha R.A	
31	INH24MC057	Keerthana G.R	
32	INH24MC087	Nidhish Mishra	
33	INH24MC109	Rishab Roy	
34	INH24MC108	Ravishankar	
35	INH24MC149	Uday Dm	
36	INH24MC159	Vishwas M	

WORKSHOP – Performance Engineering Excellence with  
 JMeter and LoadRunner  
 DATED: 03.12.2025

SERIAL NO	USN NO	NAME	SIGNATURES
37	1NH24mc124	Shobankm Aradhya	<i>Shobankm</i>
38	1NH24mc082	Narendra Singh Desai	<i>Narendra</i>
39	1NH24mc051	Jayant Nair	<i>Jayant</i>
40	1NH24mc008	Aditya Kamate.	<i>Aditya</i>
41	1NH24mc021	Ashish. Kumar	<i>Ashish</i>
42	1NH24mc101	Prietham B.S	<i>Prietham</i>
43	1NH24mc091	Nisikshith M.V	<i>Nisikshith</i>
44	1NH24mc142	Tanmay Rana	<i>Tanmay</i>
45	1NH24mc111	Saarthak Kheri	<i>Saarthak</i>

M.T. Vasile  
 EVENT COORDINATOR

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 NEW HORIZON COLLEGE OF ENGINEERING  
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