



March 25, 2017

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**A brief report of the inaugural programme of a Two Day workshop on “Selenium Testing Tool” organized by Department of Computer Engineering and Department Information Technology under CSI student chapter activity on 20<sup>th</sup> & 21<sup>st</sup> March, 2017 (Monday& Tuesday)**

A **Two Day** workshop on **Selenium Testing Tool** was organized by **Department of Computer Engineering** and **Department of Information Technology** on **20<sup>th</sup> & 21<sup>st</sup> March, 2017**. The workshop was organized under the **CSI student chapter** for selected students IV Yr (VIII Sem.). In this workshop **31** students of **CSE-PCE**, **18** students of **IT-PCE** and **02** students of **CSE-PGI** participated (**Total-51 students**).

The main objective of this workshop was to provide the basic understanding of automated testing through **Selenium** open source testing tool. Selenium is one of the popular software testing frameworks for web applications. The workshop covered from the basics of test plan and test case design to advanced topic **Selenium – Web driver**.

The workshop was conducted by external training agency **TechnoGlobe, Jaipur** and the trainer was **Mr. Narendra Singh Nirwan, Technical Head, TechnoGlobe, Jaipur**

The inaugural ceremony of the workshop witnessed the presence of **Dr. Om Prakash Sharma, Director PCE**, **Mr. Vijay Gupta Business Development Manger – TechnoGlobe**, **Dr. Ajay Khunteta HoD – CSE** and **Mr. Amol Saxena HoD - IT** along with the faculty members of Department of IT and CE, PCE.

**Mr. Amol Saxena** formally welcomed the dignitaries and experts from **TechnoGlobe, Jaipur** in his opening address. He gave the introduction to the workshops with schedule and contents to be covered in the workshop. **Director - PCE** greeted the guests and trainers by presenting mementos.

**Dr. Om Prakash Sharma, Director PCE** in his motivational address emphasized upon the importance of skill oriented learning and significance of automated tools like Selenium.



# POORNIMA

## COLLEGE OF ENGINEERING

Department of Computer Engineering and Information Technology

**A Two day Workshop on “Selenium Testing Tool”**

**20<sup>th</sup> & 21<sup>st</sup> March, 2017**

**Venue: WL 01 Lab**

**Faculty Coordinators: - Mr. Loveleen Kumar, Asst Prof – IT, Mr. Lal Babu Purbey  
Asst Prof – CE**

**Name of Trainer: Mr. Narendra Singh Nirwan, Technical Head, TechnoGlobe, Jaipur**

### Q-Sheet

S. No	Programme	Duration	Time
1	Reporting of the students and faculty coordinators	10 min	8:30 to 8:35 AM
2	Arrival of Dignitaries & Seating <ul style="list-style-type: none"><li>• Dr. Om Prakash Sharma, Director – PCE</li><li>• Mr. Narendra Singh Nirwan, Technical Head, TechnoGlobe, Jaipur</li><li>• Mr. Vijay Gupta – Bus. Develop. Manager , TechnoGlobe, Jaipur</li><li>• Dr. Ajay Khunteta, HoD-CE</li><li>• Mr. Amol Saxena, HoD –IT</li><li>• Faculty Coordinators of CE and IT Departments.</li></ul>		8:35 to 8:40 AM
<b><u>Inaugural Session</u></b>			
3	Introduction of the workshop and inaugural speech by <b>Mr. Amol Saxena, HoD, IT Department</b>	5 min	8:40 to 8:45AM
4	Felicitation of Guests by <b>Dr. Om Prakash Sharma Director, PCE</b> and by <b>Dr. Ajay Khunteta, HoD-CE.</b> <ul style="list-style-type: none"><li>• <b>Mr. Narendra Singh Nirwan, Technical Head, TechnoGlobe, Jaipur (Workshop Trainer)</b></li><li>• <b>Mr. Vijay Gupta - TechnoGlobe, Jaipur</b></li></ul>	5 min	8:45 to 8:50AM
5	Words of motivation and wisdom by <b>Dr. Om Prakash Sharma Director, PCE</b>	5 min	8:50 to 8:55AM
6	<b>Content for Day-1 and Day-2 is attached herewith</b>		

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**Faculty Coordinators: - Mr. Loveleen Kumar, Asst Prof – IT, Mr. Lal Babu Purbey  
Asst Prof – CE, Mr. Amit Jha Asst Prof – IT**

**Name of Trainer: Mr. Narendra Singh Nirwan, Technical Head, TechnoGlobe, Jaipur**

**Software Testing With Selenium**

**Duration: 12 Hours**

**Brief introduction of Software Testing**

1. Basic Testing
2. Quality Assurance versus Quality Control
3. Software Quality Factors
4. How Quality is Defined
5. What is a Defect?
6. Scope of Testing
7. Testing Constraints
8. Life Cycle Testing
9. Independent Testing
10. What is a QA Process?

**Create the Test Plan and Test Cases**

1. Defect Life Cycle
2. Defect Management
3. Manual Software Testing
4. User Interface testing
5. Database Testing


**Selenium Testing Tool**

1. Selenium Components
2. Selenium IDE
3. • Downloading and Installing Selenium IDE
4. • Recording and Running a Simple Test
5. • Selenium IDE – Features
6. • Installing Useful Tools for Writing Tests
7. • Selenium Concepts
8. • Selenium Commands
9. • Verifying Page Elements – Assertions and Verifications
10. • Wait Commands
11. • Object Identification
12. • Element Locators
13. • Regular Expression patterns
14. • Selenium Test Runner
15. • Using Regular Expressions in Selenium IDE


## 16. • Creating Selenium Test Suites

### Advanced Selenium – Web driver

1. Advanced Selenium – Web driver
2. • Advantages of web driver
3. • Architecture of Web Driver
4. • Web Driver IDE
5. • Installation / Configuring Eclipse for Web Driver
6. • Identifying the elements in Web Driver Using Id
7. • Working with Different drivers like HtmlUnit driver, Firefox Driver etc...
8. • Creating the generic scripts in Web Driver
9. • Creating the scripts by using functions
10. • Web Driver Client Libraries
11. • Web Driver commands with examples



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### Department of Computer Engineering & Information Technology


## Two Day Workshop on Selenium Testing Tool (20<sup>th</sup> -21<sup>st</sup> March-2017)



**SAVE WATER**



**SAVE GREENERY**



**SAVE EARTH**

