



**RAMAIAH**

College of Arts, Science &  
Commerce

ಎಮ್ ಎಸ್ ರಾಮಯ್ಯ ಕಲಾ, ವಿಜ್ಞಾನ ಮತ್ತು ವಾಣಿಜ್ಯ ಕಾಲೇಜು

**M S Ramaiah College of Arts, Science and Commerce**

Re-accredited 'A' by NAAC, Permanently Affiliated to Bengaluru City University,

Approved by Government of Karnataka, Approved by AICTE, New Delhi,

Recognized by UGC under 2f & 12B of UGC act 1956



(National Institutional Ranking Framework, Ministry of Education, Govt of India)

Ranked 62<sup>nd</sup> in NIRF India Ranking by MHRD, New Delhi

DBT Star College Scheme

Ref: MSRCASC/CSc/21-22/010

Date: 13/12/2021

## CIRCULAR

### Department of Computer Science

This is to inform to all the BCA V semester students that the department has planned to conduct a Value added course on “**Software Testing using Selenium**” from 5<sup>th</sup> to January 2022. Students who are interested can enrol your names to Mrs Dhanashri Vaishali on or before 24<sup>th</sup> December 2021. The resource person is Ms. Nithya B N, Assistant Professor, Department of Master of Computer Applications, MSRIT , Bengaluru.

*Kal*  
13/12/21  
HOD

Head Of The Department Of Computer Science  
M. S. Ramaiah College Of  
Arts Science And Commerce  
MSRIT Post, Bangalore - 560 054

*Heckle*  
Principal

Principal,  
M.S. Ramaiah College of Arts, Science & Commerce  
MSRIT Post, MSR Nagar  
Bangalore - 560 054



## ABOUT THE COLLEGE

M S Ramaiah College of Arts, Science and Commerce was established in 1994 by our founder Late Dr. M S Ramaiah offering both under graduate and post graduate degrees offered by Bengaluru City University approved by AICTE, New Delhi, recognized by the Government of Karnataka. The college is also recognized by UGC under 2f and 12b of UGC Act 1956, re-accredited "A" grade by NACC and has ranked 62<sup>nd</sup> in a NIRF ranking and 1st among the best colleges of Karnataka

## ABOUT THE DEPARTMENT

The Computer Science department of MSCASC aims to educate students in the science and practice of IT. The emphasis is on hands-on practical training of software development. The curriculum prepares students for a career in the fast lane of software development and programming. The program enables the student to be updated on the latest revolution in technology and equips the students with the required skills and knowledge to assimilate into the industry at ease. The department has achieved **12th** position in "India Today Ranking"

## PATRONS

Dr. M R Jayaram Chairman, GEF  
Sri M R Janakiram Director, GEF  
Sri M R Kodandaram Director, GEF  
Sri B S Ramprasad Chief Executive GEF(E & GS)  
Sri G Ramachandra Chief of Finance GEF(E & GS)  
Dr. A Nagarathna Principal

## ORGANIZING COMMITTEE

Dr. Prathiba V Kalburgi, HOD  
Mrs. Haripriya G S, Assistant Professor  
Mrs. Suma C, Assistant Professor  
Mrs. R Srividya, Assistant Professor  
Mr. Lakshmi pathi V, Assistant Professor  
Mrs. Shilpa Nayak, Assistant Professor  
Mrs. Savitri Kulkarni, Assistant Professor

## OBJECTIVE OF THE PROGRAM

To understand the Software testing both using the manual method and also the tools using Selenium

## REGISTRATION LINK

<https://forms.gle/gzTrVPHQCPaueC46>



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**Department of Computer Science**  
*Organizes*

Value Added Course On

*"Software Testing Using  
Selenium"*

## RESOURCE PERSON

**Mrs. Nithya B N**

Assistant Professor, MCA Department  
Ramaiah Institute of Technology, Bengaluru

Date: 5<sup>th</sup> January to 3<sup>rd</sup> February 2022

Time: 2:00 – 4pm

Event Co-ordinator : Mrs. Dhanashri Vashali

Beneficiaries: Final Year BCA students





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## Department of Computer Science

### Value added course

**Title:** Software testing using selenium

**Date:** 5<sup>th</sup> January to 3<sup>rd</sup> February 2022

**Venue:** Online

**Participants:** III Year BCA students

**Resource person:** Geetanjali R, Senior Teaching Assistant, Department of Master of Computer Applications, MSRIT.

**No of students:**80

**Event Coordinator:** Dhanashri Vaishali

**Objective:** To develop skills required for software testing using selenium, Software testing is an activity which aims at evaluating the quality of a software product and also to improve it by identifying defects.

#### Course Outline:

1. To evaluate the work products such as requirements, design, user stories and code
2. To verify the fulfilment of all specified requirements
3. To validate if the test object is complete and works as per the expectation of the users and the stakeholders
4. To build confidence in the quality level of the test object
5. To prevent defects in the software products.
6. Data-Driven Testing
7. Functional Testing
8. TestNG etc.,

Value-added courses are **those courses designed to enhance the standard of the students beyond those levels specified in academic curriculum.** In order to enhance employability of the student value added courses are included in the curriculum. This course aims to provide additional learner centric graded skill oriented technical training, with the primary objective of improving the employability skills of the students. The value added course helps to make

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students better prepared to meet industry demands as well as develop their own interests and aptitudes.

The first day of the course started with the introduction to the topic and resource person to all the participants of the course. Then the session was taken over by the resource person, who gave insights into what the industry is looking at and what are the high demand technologies in the industry. The resource person started with the basic question about software testing? like

what is selenium?

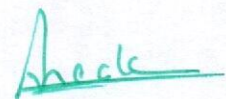
**Selenium** is a free (open-source) automated testing framework used to validate web applications across different browsers and platforms. You can use multiple programming languages like Java, C#, Python etc to create Selenium Test Scripts. Testing done using the Selenium testing tool is usually referred to as Selenium Testing.

Selenium Software is not just a single tool but a suite of software, each piece catering to different Selenium QA testing needs of an organization. Here is the list of tools

- Selenium Integrated Development Environment (IDE)
- Selenium Remote Control (RC)
- WebDriver
- Selenium Grid
- The entire Selenium Software Testing Suite is comprised of four components:
- Selenium IDE, a Firefox add-on that you can only use in creating relatively simple test cases and test suites.
- Selenium Remote Control, also known as Selenium 1, which is the first Selenium tool that allowed users to use programming languages in creating complex tests.
- WebDriver, the newer breakthrough that allows your test scripts to communicate directly to the browser, thereby controlling it from the OS level.
- Selenium Grid is also a tool that is used with Selenium RC to execute parallel tests across different browsers and operating systems.
- Selenium RC and WebDriver was merged to form Selenium 2.
- Selenium is more advantageous than QTP in terms of costs and flexibility. It also allows you to run tests in parallel, unlike in QTP where you are only allowed to run tests sequentially.

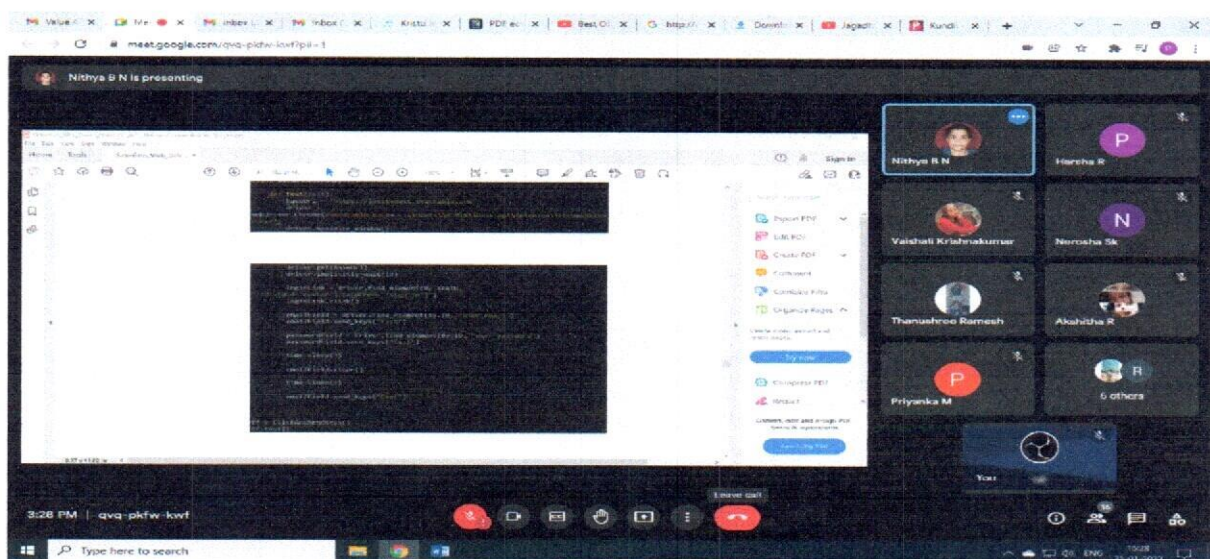
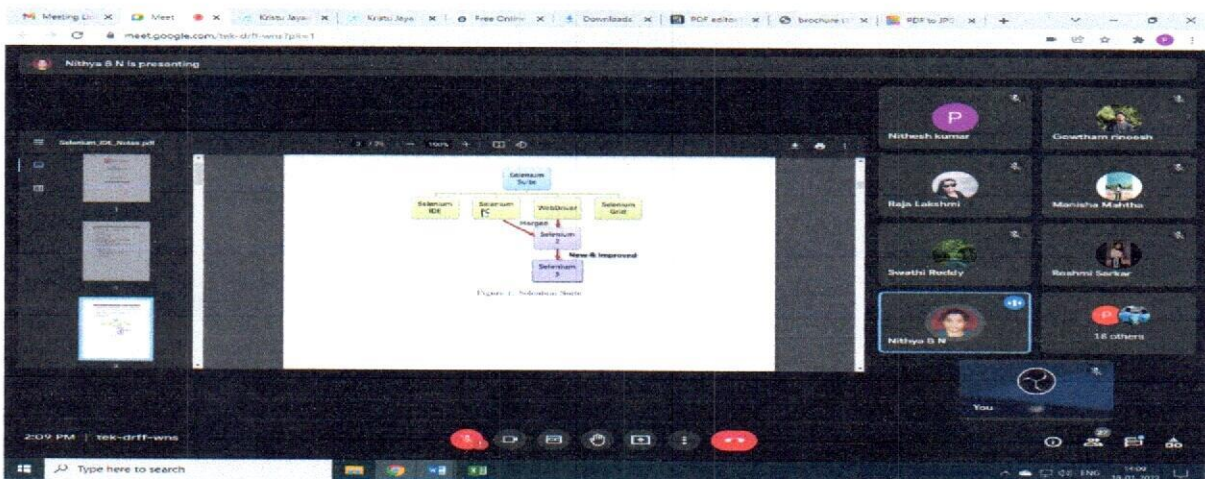
He then explained about all the tools of selenium followed by the the interactive session to ensure that the entire session was interesting and fruitful

Outcome: Automation testing in Selenium has helped solve some of the challenges experienced in manual testing. In manual testing, the test cases are executed manually. The outcome of the test is compared with the expected or desired outcome.



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The screenshot shows a Google Meet interface during a presentation. The main display area shows a slide from a presentation titled '6 Selenium Integrated Development Environment (IDE)'. The slide content includes a definition of Selenium IDE, its purpose, and a list of features. The right sidebar shows a grid of participant video feeds, including Nithya B N, Nithesh kumar, Gowtham Hrush, Raja Lakshmi, Harsha R, Sachin Rautwar, Vashishth Krishnakumar, and Nithya B N. The bottom status bar shows the time as 2:18 PM and the meeting name as 'tek-drff-wms'.

**6 Selenium Integrated Development Environment (IDE)**

Selenium IDE is a browser-based tool for recording, organizing, and running web browser tests.

The new Selenium IDE is designed to record user interactions with web pages to help you perform and maintain site and application tests, and requires the need to manually enter the web browser's address. Features include:

- Recording and playing back tests on Firefox and Chrome.
- Organizing tests into suites for easy management.
- Script and testing scripts for Java, JavaScript.
- Support for Selenium 2.

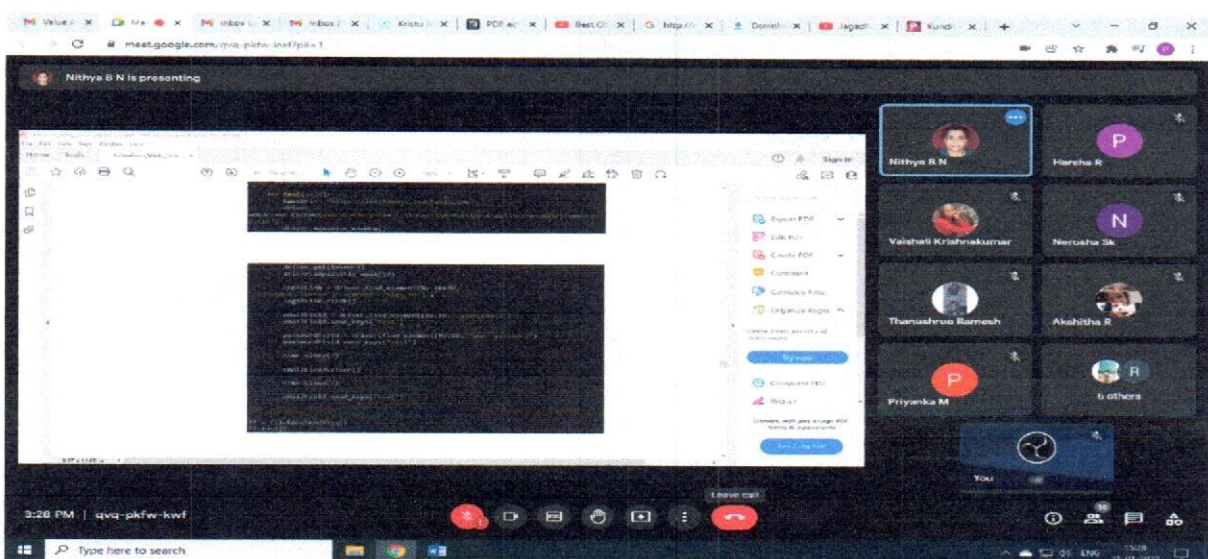
**7 Installation of Selenium IDE**

A Selenium IDE can be downloaded from the Selenium site and installed as a plugin for various browsers like Firefox and Chrome. You can install it based on the browser you are using.

**Steps:**

1. Go to the Selenium site (<http://www.seleniumhq.org/>).
2. Click on the Selenium IDE link in the top and bottom of the browser.

2:18 PM | tek-drff-wms



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## Department of Computer Science

**Name of the program: Software testing using selenium**

**Year: 2021-22**

**Duration: 30 hours**

**Assessment procedure for value added course: Software testing using selenium**

**Objective:** To develop skills required for software testing using selenium, Software testing is an activity which aims at evaluating the quality of a software product and also to improve it by identifying defects.

The Department of computer science had organized value added course from 05/01/2022 to 03/02/2022 for BCA students. Total of 80 students had participated in this course.

The certificates were given to all the participants after successfully completion of the course by assessing their knowledge gained during this course. The gained knowledge was assessed with the help of MCQ's

**Assessment procedure:**

Criteria	Marks
MCQ	20
Attendance	10
Practicals	10
Total	40

**Outcome:** Automation testing in Selenium has helped solve some of the challenges experienced in manual testing. In manual testing, the test cases are executed manually. The outcome of the test is compared with the expected or desired outcome.

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**Department: Computer Science**

**Name of the program: Software testing using selenium**

**MCQ's**

1) Selenium doesn't support \_\_\_\_\_ to write programs (Test Scripts)

- a) Java
- b) Kotlin
- c) VBScript
- d) Python

2) \_\_\_\_\_ is not a Selenium Component.

- a) Selenium IDE
- b) Maven
- c) Selenium Grid
- d) WebDriver

3) \_\_\_\_\_ doesn't support Test design (Creating test Cases)

- a) Selenium IDE
- b) Selenium RC
- c) Selenium WebDriver
- d) Selenium Grid

4) \_\_\_\_\_ doesn't support programming.

- a) Selenium IDE
- b) Selenium RC



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c) Selenium WebDriver

d) Selenium Grid

5) What is TestNG?

a) Programming Language

b) Test Tool

c) Build Automation Tool

d) Testing Framework

6) What is Maven?

a) Programming Language

b) Test Tool

c) Build Automation Tool

d) Testing Framework

7) \_\_\_\_\_ supports Parallel Test Execution

a) Selenium IDE

b) Selenium RC

c) Selenium WebDriver

d) Selenium Grid


8) Selenium IDE supports \_\_\_\_\_ Browser only to create and execute Test Cases.

a) Google Chrome

b) Internet Explorer

c) Mozilla Firefox

d) Opera



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9) What is Jenkins?

- a) Continuous Integration Tool
- b) Functional & Regression Test Tool
- c) Mobile Test Tool
- d) Testing Framework

10) \_\_\_\_\_ is the use of Firebug in Selenium?

- a) Programming
- b) Inspecting Elements
- c) Parallel Testing
- d) Cross Browser Testing

11) \_\_\_\_\_ is an Advantage of Selenium WebDriver?

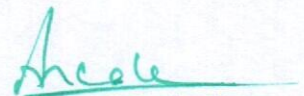
- a) Supports Web-based Applications only
- b) No built-in Result Reporting facility
- c) Open Source
- d) No IDE

12) \_\_\_\_\_ is a Disadvantage of Selenium WebDriver?

- a) Cross-platform
- b) Open Source
- c) Parallel Test execution
- d) Supports Web based Applications only

13) Selenium supports Computer Web Applications and \_\_\_\_\_

- a) Desktop Applications



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b) Mobile Native Applications

c) Mobile Web Applications

d) Mobile Hybrid Applications

14) Selenium IDE doesn't support \_\_\_\_\_

a) Recording

b) Batch Testing

c) Programming

d) Test Execution

15) Selenium WebDriver doesn't support \_\_\_\_\_

a) Recording

b) Batch Testing

c) Programming

d) Test Execution

16) \_\_\_\_\_ is the built-in feature of Mozilla Firefox Browser to inspect elements?

a) Firebug

b) Firepath

c) Page Inspector


d) POM (Page Object Model)

17) \_\_\_\_\_ is not for Functional Test Automation?

a) Selenium

b) UFT/QTP

c) SilkTest



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d) RPT

18) \_\_\_\_\_ is not a Performance Test Tool?

a) LoadRunner

b) UFT/QTP

c) SilkPerformer

d) RPT

19) \_\_\_\_\_ is not a Bug Tracking Tool?

a) Bugzilla

b) Mantis

c) Cucumber

d) BugHost

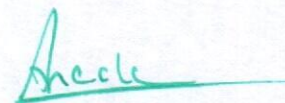
20) \_\_\_\_\_ is not a Mobile Test Tool?

a) Appium

b) Mantis

c) Silk Mobile

d) Ranorex



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**Department of Computer Science**

**Value Added Course: Software testing using Selenium from 5th January 2022**

	Timestamp	Name	Register Number	Course	Please select the semester you are
1	02-03-2022 09:30:33	Anis Das	R1917606	BCA	6th
2	02-03-2022 09:35:02	Deepanshu Choraria	R1917611	BCA	6th
3	02-03-2022 09:35:10	Ankush Kumar	R1917608	BCA	6th
4	02-03-2022 09:35:22	K Shwetha	R1917628	BCA	6th
5	02-03-2022 09:36:00	Govardhan D Nath	R1917617	BCA	6th
6	02-03-2022 09:36:15	Sindhu V	R1917668	BCA	6th
7	02-03-2022 09:36:22	Yogini Arora	R1917680	BCA	6th
8	02-03-2022 09:36:31	Dhanush C	R1917612	BCA	6th
9	02-03-2022 09:36:40	Dinesh Kumar P	R1917613	BCA	6th
10	02-03-2022 09:36:48	Advaith V	R1917603	BCA	6th
11	02-03-2022 09:36:52	Harsha R	R1917623	BCA	6th
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13	02-03-2022 09:38:10	Nerosha S K	R1917643	BCA	6th
14	02-03-2022 09:38:54	Kishan Kumar U	R1917630	BCA	6th
15	02-03-2022 09:39:00	Mohammed Javeed	R1917638	BCA	6th
16	02-03-2022 09:39:10	Parinitha Ramesh Naidu	R1917649	BCA	6th
17	02-03-2022 09:39:15	Pradeep E	R1917651	BCA	6th
18	02-03-2022 09:39:22	Khailas R	R1917629	BCA	6th
19	02-03-2022 09:39:30	Gowtham Rineesh S	R1917619	BCA	6th
20	02-03-2022 09:39:42	Sachin Kumar	R1917663	BCA	6th
21	02-03-2022 09:39:50	Tanvi Gupta	R1917673	BCA	6th
22	02-03-2022 09:40:02	Manisha Kumari	R1917636	BCA	6th
23	02-03-2022 09:40:08	Nishanth N Pathange	R1917645	BCA	6th
24	02-03-2022 09:40:12	M Suhas	R1917633	BCA	6th
25	02-03-2022 09:41:00	Abdul Hanan Banday	R1917601	BCA	6th
26	02-03-2022 09:42:10	Esha Patel	R1917614	BCA	6th
27	02-03-2022 09:45:37	Aditya V Chakraborty	R1917602	BCA	6th
28	02-03-2022 09:46:52	Raj Aryan	R1917657	BCA	6th
29	02-03-2022 09:47:10	Nandan G	R1917641	BCA	6th
30	02-03-2022 09:47:42	Aisha Fatima Bari	R1917604	BCA	6th
31	02-03-2022 09:47:50	Jyothika B	R1917626	BCA	6th
32	02-03-2022 09:47:55	Harikrishna Santosh	R1917622	BCA	6th
33	02-03-2022 09:48:22	Vignesh A	R1917677	BCA	6th
34	02-03-2022 09:48:30	Sadiya Azra	R1917664	BCA	6th
35	02-03-2022 09:50:02	Niharika B H	R1917644	BCA	6th
36	02-03-2022 09:50:02	Rachana K	R1917656	BCA	6th
37	02-03-2022 09:50:03	Pavan G	R1917650	BCA	6th
38	02-03-2022 09:50:07	Pranav Pandey	R1917653	BCA	6th

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39	02-03-2022	09:50:09	Chovatiya Priyanka M	R1917609	BCA	6th
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53	02-03-2022	09:51:02	Sandra M	R1917665	BCA	6th
54	02-03-2022	09:51:02	Rajalakshmi Y V	R1917658	BCA	6th
55	02-03-2022	09:51:05	Madhavi Hathwar P	R1917634	BCA	6th
56	02-03-2022	09:51:06	Navanigha K K	R1917642	BCA	6th
57	02-03-2022	09:51:07	Ankit S M	R1917607	BCA	6th
58	02-03-2022	09:51:09	Hari Prasad S	R1917621	BCA	6th
59	02-03-2022	09:51:10	Deekshitha B	R1917610	BCA	6th
60	02-03-2022	09:51:11	Pallavi G N	R1917648	BCA	6th
61	02-03-2022	09:51:12	Reshmi Sarkar	R1917660	BCA	6th
62	02-03-2022	09:51:15	Nitesh A Kumar	R1917646	BCA	6th
63	02-03-2022	09:51:22	Roshan Prasad	R1917662	BCA	6th
64	02-03-2022	09:51:23	Vaishali K	R1917676	BCA	6th
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66	02-03-2022	09:51:25	Gowtham Hebbar	R1917616	BCA	6th
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69	02-03-2022	09:54:08	Swathi O	R1917672	BCA	6th
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76	02-03-2022	09:55:08	Shree Charan H	R1917667	BCA	6th
77	02-03-2022	09:55:08	Uma P	R1917675	BCA	6th
78	02-03-2022	09:55:08	Manjunath A Gaded	R1917637	BCA	6th
79	02-03-2022	09:55:08	Mohammed Ruwais A	R1917640	BCA	6th
80	02-03-2022	09:55:08	Supriya Goswami	R1917670	BCA	6th

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## Certificate

### Department of Computer Science

This is to certify that Mr./Ms.Anis Das of V Semester BCA has successfully completed the course on "Software Testing using Selenium" organized by Department of Computer Science, MSRCASC in association with MSRIT held between January and February 2022.

COORDINATOR  
(Department of  
Computer Science)

HOD  
(Department of  
Computer Science)

PRINCIPAL  
Dr.A.Nagarathna





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# Certificate

## Department of Computer Science

This is to certify that Mr./Ms.Deepanshu Choraria of V Semester BCA has successfully completed the course on "Software Testing using Selenium" organized by Department of Computer Science, MSRCASC in association with MSRIT held between January and February 2022.

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This is to certify that Mr./Ms.Ankush Kumar of V Semester BCA has successfully completed the course on "Software Testing using Selenium" organized by Department of Computer Science, MSRCASC in association with MSRIT held between January and February 2022.

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This is to certify that Mr./Ms.K Shwetha of V Semester BCA has successfully completed the course on "Software Testing using Selenium" organized by Department of Computer Science, MSRCASC in association with MSRIT held between January and February 2022.

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This is to certify that Mr./Ms.Govardhan D Nath of V Semester BCA has successfully completed the course on "Software Testing using Selenium" organized by Department of Computer Science, MSRCASC in association with MSRIT held between January and February 2022.

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This is to certify that Mr./Ms.Sindhu V of V Semester BCA has successfully completed the course on "Software Testing using Selenium" organized by Department of Computer Science, MSRCASC in association with MSRIT held between January and February 2022.

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This is to certify that Mr./Ms.Yogini Arora of V Semester BCA has successfully completed the course on "Software Testing using Selenium" organized by Department of Computer Science, MSRCASC in association with MSRIT held between January and February 2022.

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This is to certify that Mr./Ms.Dhanush C of V Semester BCA has successfully completed the course on "Software Testing using Selenium" organized by Department of Computer Science, MSRCASC in association with MSRIT held between January and February 2022.

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This is to certify that Mr./Ms.Dinesh Kumar P of V Semester BCA has successfully completed the course on "Software Testing using Selenium" organized by Department of Computer Science, MSRCASC in association with MSRIT held between January and February 2022.

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This is to certify that Mr./Ms.Advaith V of V Semester BCA has successfully completed the course on "Software Testing using Selenium" organized by Department of Computer Science, MSRCASC in association with MSRIT held between January and February 2022.

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This is to certify that Mr./Ms.Harsha R of V Semester BCA has successfully completed the course on "Software Testing using Selenium" organized by Department of Computer Science, MSRCASC in association with MSRIT held between January and February 2022.

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This is to certify that Mr./Ms.Gowri S of V Semester BCA has successfully completed the course on "Software Testing using Selenium" organized by Department of Computer Science, MSRCASC in association with MSRIT held between January and February 2022.

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This is to certify that Mr./Ms.Nerosha S K of V Semester BCA has successfully completed the course on "Software Testing using Selenium" organized by Department of Computer Science, MSRCASC in association with MSRIT held between January and February 2022.

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This is to certify that Mr./Ms.Kishan Kumar U of V Semester BCA has successfully completed the course on "Software Testing using Selenium" organized by Department of Computer Science, MSRCASC in association with MSRIT held between January and February 2022.

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This is to certify that Mr./Ms.Mohammed Javeed of V Semester BCA has successfully completed the course on "Software Testing using Selenium" organized by Department of Computer Science, MSRCASC in association with MSRIT held between January and February 2022.

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