

Subject Code: 050120502

**Subject Name: Software Engineering and Quality Assurance Practical** 

	Session – 1 (Software testing using selenium)	
	Topics to be covered	
1	Selenium test environment	
2	Introduction to selenium	
3	Features of selenium	
4	Selenium Limitations	

Essential List (Practical):	
Download and install the Java Software Development Kit (JDK)	
	http://www.oracle.com/technetwork/java/javase/downloads/index.html
2	Download "Eclipse IDE for Java Developers"
	http://www.eclipse.org/downloads/
3	Download web driver compatible with eclipse
	https://chromedriver.chromium.org/downloads



Subject Code: 050120502

**Subject Name: Software Engineering and Quality Assurance Practical** 

	Session - 2 (Software testing using selenium)	
	Topics to be covered	
1	Selenium test environment	
2	Introduction to selenium	
3	Features of selenium	
4	Selenium Limitations	

Essential List (Practical):	
1	Download and install the Java Software Development Kit (JDK)
	http://www.oracle.com/technetwork/java/javase/downloads/index.html
2	Download "Eclipse IDE for Java Developers"
	http://www.eclipse.org/downloads/
3	Download web driver compatible with eclipse
	https://chromedriver.chromium.org/downloads

Desirable List (Practical):	
1	Which are other testing tools available in market?



Subject Code: 050120502

**Subject Name: Software Engineering and Quality Assurance Practical** 

	Session - 3 (Software testing using selenium)	
	Topics to be covered	
1	Configure eclipse IDE with web driver	
2	Web driver commands:	
3	Get command, Get Title Command, Get Current URL Command	
4	Get Page Source Command, Close Command, Quit Command	

Essential List (Practical):	
1	Write a selenium code which opens a website and display its title and url.
2	Write a selenium code which opens a website and display its page source and closes the web page.

Desirable List (Practical):	
1	Write a selenium code which opens a website. The code should display its title, url and closes the webpage.



Subject Code: 050120502

**Subject Name: Software Engineering and Quality Assurance Practical** 

	Session - 4 (Software testing using selenium)	
	Topics to be covered	
1	Configure eclipse IDE with web driver	
2	Web driver commands	
3	Get command, Get Title Command, Get Current URL Command	
4	Get Page Source Command, Close Command, Quit Command	

Essential List (Practical):	
1	Write a selenium code which opens a website and display its title and url.
2	Write a selenium code which opens a website and display its page source and closes the web page.

Desirable List (Practical):	
1	Write a selenium code which opens a website. The code should display its title, url and closes the webpage.



Subject Code: 050120502

**Subject Name: Software Engineering and Quality Assurance Practical** 

Session - 5	
	Topics to be covered
1	Configure eclipse IDE with web driver
2	Web driver commands
3	Get command, Get Title Command, Get Current URL Command
4	Get Page Source Command, Close Command, Quit Command

Essential List (Practical):	
1	Write a selenium code which opens a website and display its title and url.
2	Write a selenium code which opens a website and display its page source and closes the web page.

Desirable List (Practical):	
1	Which are other testing tools available in market?



Subject Code: 050120502

**Subject Name: Software Engineering and Quality Assurance Practical** 

	Session - 6 (Software testing using selenium)	
	Topics to be covered	
1	Navigation Commands:	
2	Navigate to command	
3	Forward command, back command	
4	Refresh command	

Essential List (Practical):	
1	Write a selenium code to open ljku website. It should navigate to admission page.
2	Write a selenium code to open ljku website. Navigate to home page from admission page.

Desirable List (Practical):	
1	Write a selenium code which opens ljku website and it should navigate to program page and come back to home page.



Subject Code: 050120502

**Subject Name: Software Engineering and Quality Assurance Practical** 

	Session - 7 (Software testing using selenium)	
	Topics to be covered	
1	Navigation Commands:	
2	Navigate to command	
3	Forward command, back command	
4	Refresh command	

Essential List (Practical):	
1	Write a selenium code to open ljku website. It should navigate to admission page.
2	Write a selenium code to open ljku website. Navigate to home page from admission page.

Desirable List (Practical):	
1	Write a selenium code which opens ljku website and it should navigate to program page and come back to home page.



Subject Code: 050120502

**Subject Name: Software Engineering and Quality Assurance Practical** 

	Session - 8 (Software testing using selenium)	
	Topics to be covered	
1	Web elements commands:	
2	Clear, Send keys	
3	Click, Is enabled	
4	Is selected, get text	

Essential List (Practical):	
1	Write a selenium code to open ljku website. It should open admission page and fill name, address and contact number via web element commands.
2	Write a selenium code to open ljku website. It should open admission page and fill program, course and specialization via web element commands.

Desirable List (Practical):	
1	Write a selenium code which opens ljku website and it should open admission page and fill the details via web elements commands.



Subject Code: 050120502

**Subject Name: Software Engineering and Quality Assurance Practical** 

	Session - 9 (Software testing using selenium)	
	Topics to be covered	
1	Web elements commands:	
2	Get text, get tag name	
3	Get attribute, get size	
4	Get Location	

Essential List (Practical):	
1	Write a selenium code to open ljku website. It should open admission page and fill name, address and contact number via web element commands.
2	Write a selenium code to open ljku website. It should open admission page and fill program, course and specialization via web element commands.

Desirable List (Practical):	
1	Write a selenium code which opens ljku website and it should open admission page and fill the details via web elements commands.



Subject Code: 050120502

**Subject Name: Software Engineering and Quality Assurance Practical** 

	Session - 10 (Software testing using selenium)	
	Topics to be covered	
1	Find Element and Find Elements commands:	
2	Difference between find element and find elements commands	
3	Find by id, name	
4	Find by CSS class and xpath	

Essential List (Practical):	
1	Write a selenium code to open ljku website. It should open admission page and fill name, address and contact number via web element commands.
2	Write a selenium code to open ljku website. It should open admission page and fill program, course, and specialization via web element commands.

Desirable List (Practical):	
1	Write a selenium code which opens ljku website and it should open admission page and fill the details via web elements commands.



Subject Code: 050120502

**Subject Name: Software Engineering and Quality Assurance Practical** 

	Session - 11 (Software testing using selenium)	
	Topics to be covered	
1	Find Element and Find Elements commands:	
2	Difference between find element and find elements commands	
3	Find by id, name	
4	Find by CSS class and xpath	

Essential List (Practical):	
1	Write a selenium code to open ljku website. It should open admission page and fill name, address and contact number via web element commands.
2	Write a selenium code to open ljku website. It should open admission page and fill program, course and specialization via web element commands.

Desirable List (Practical):	
1	Write a selenium code which opens ljku website and it should open admission page and fill the details via web elements commands.



Subject Code: 050120502

**Subject Name: Software Engineering and Quality Assurance Practical** 

	Session – 12	
	(Software testing using selenium)	
	Topics to be covered	
1	Find Element and Find Elements commands:	
2	Find web element by class id	
3	Find web element by class id	
4	Checkbox selection	

Essential List (Practical):	
1	Write a selenium code to open ljku website. It should open admission page and fill name, address and contact number via web element commands.
2	Write a selenium code to open ljku website. It should open admission page and fill program, course and specialization via web element commands.

Desirable List (Practical):	
1	Write a selenium code which opens ljku website and it should open admission page and fill the details via web elements commands.



Subject Code: 050120502

**Subject Name: Software Engineering and Quality Assurance Practical** 

	Session - 13 (Software testing using selenium)	
	Topics to be covered	
1	Dynamic web tables	
2	Dynamic web tables by get text	
3	Dynamic web tables by get attribute	
4	Dynamic web tables by xpath, radio button selection	

Essential List (Practical):	
1	Write a selenium code to open ljku website. It should open admission page and fill name, address and contact number via web element commands.
2	Write a selenium code to open ljku website. It should open admission page and fill program, course and specialization via web element commands.

Desirable List (Practical):	
1	Write a selenium code which opens ljku website and it should open admission page and fill the details via web elements commands.



Subject Code: 050120502

**Subject Name: Software Engineering and Quality Assurance Practical** 

	Session - 14 (Software testing using selenium)	
	Topics to be covered	
1	Synchronization:	
2	Implicit wait, Explicit wait	
3	Page load time	
4	Expected condition class	

Essential List (Practical):	
1	Write a selenium code which opens ljku website. The script should display the window size.
2	Write a selenium code which opens ljku website. The script should set the new window size and display appropriate output on console.

Desirable List (Practical):	
1	Write a selenium code which opens ljku website. The script should display existing window size, set new window size via synchronization and window handling commands.



Subject Code: 050120502

**Subject Name: Software Engineering and Quality Assurance Practical** 

	Session - 15 (Software testing using selenium)	
	Topics to be covered	
1	Window handling:	
2	Size	
3	Position	
4	Handles, Switch to	

Essential List (Practical):	
1	Write a selenium code which opens ljku website. The script should display the window size.
2	Write a selenium code which opens ljku website. The script should set the new window size and display appropriate output on console.

Desirable List (Practical):	
1	Write a selenium code which opens ljku website. The script should display existing window size, set new window size via synchronization and window handling commands.



Subject Code: 050120502

**Subject Name: Software Engineering and Quality Assurance Practical** 

	Session - 16 (Software testing using selenium)	
	Topics to be covered	
1	Concept of screenshot:	
2	Takes screenshot	
3	Browser profile	
4	Set preferred language, changing user agents, enable extensions	

Essential List (Practical):	
1	Write a selenium code which finds an element by frame tag. Display the output on console.
2	Write a selenium code which takes the screen shot of website and store it on a particular location.

Desirable List (Practical):	
1	Write a selenium code which finds an element by frame tag. Take the screenshot of current website and store it on a particular location.



Subject Code: 050120502

**Subject Name: Software Engineering and Quality Assurance Practical** 

	Session - 17 (Software testing using selenium)	
	Topics to be covered	
1	Concept of screenshot:	
2	Takes screenshot	
3	Browser profile	
4	Set preferred language, changing user agents, enable extensions	

Essential List (Practical):	
1	Write a selenium code which finds an element by frame tag. Display the output on console.
2	Write a selenium code which takes the screen shot of website and store it on a particular location.

Desirable List (Practical):	
1	Write a selenium code which finds an element by frame tag. Take the screenshot of current website and store it on a particular location.



Subject Code: 050120502

**Subject Name: Software Engineering and Quality Assurance Practical** 

	Session - 18 (Software testing using selenium)	
	Topics to be covered	
1	Cookies: creating, reading, deleting	
2	Get cookie, get cookie named, Add cookie	
3	Delete cookie, delete cookie named	
4	Delete all cookies	

Essential List (Practical):	
1	Write a selenium code which creates cookie and display its name.
2	Write a selenium code which displays existing cookie on console.

Desirable List (Practical):	
1	Write a selenium code which displays existing cookie on console, create new cookie, display into cookie list and delete recently created cookie.



Subject Code: 050120502

**Subject Name: Software Engineering and Quality Assurance Practical** 

	Session - 19 (Software testing using selenium)	
	Topics to be covered	
1	Cookies: creating, reading, deleting	
2	Get cookie, get cookie named, Add cookie	
3	Delete cookie, delete cookie named	
4	Delete all cookies	

Essential List (Practical):	
1	Write a selenium code which creates cookie and display its name.
2	Write a selenium code which displays existing cookie on console.

Desirable List (Practical):	
1	Write a selenium code which displays existing cookie on console, create new cookie, display into cookie list and delete recently created cookie.



Subject Code: 050120502

**Subject Name: Software Engineering and Quality Assurance Practical** 

	Session - 20 (Software testing using selenium)	
	Topics to be covered	
1	Data driven testing:	
2	Excel data	
3	Data retrieval	
4	File input stream	

Essential List (Practical):	
1	Write a selenium code which retrieves excel data from an excel file and make it as input for a form.

Desirable List (Practical):	
1	Write a selenium code which retrieves data from an excel file. Make this data as input in a form and perform necessary actions.



Subject Code: 050120502

**Subject Name: Software Engineering and Quality Assurance Practical** 

	Session - 21 (Software testing using selenium)	
	Topics to be covered	
1	Data driven testing:	
2	Excel data	
3	Data retrieval	
4	File input stream	

Essential List (Practical):	
1	Write a selenium code which retrieves excel data from an excel file and make it as input for a form.

Desirable List (Practical):	
1	Write a selenium code which retrieves data from an excel file. Make this data as input in a form and perform necessary actions.



Subject Code: 050120502

**Subject Name: Software Engineering and Quality Assurance Practical** 

	Session - 22 (Software testing using selenium)	
	Topics to be covered	
1	Page object Model:	
2	Benefits of Page object model: Object repository	
3	Reuse code, reduce duplication	
4	Implementation of page object model	

Essential List (Practical):	
1	Write a selenium code which use multiple pages as an object and display appropriate output.

Desirable List (Practical):	
1	Use different web elements of ljku web site to write the code for page object model.  Display appropriate output.



Subject Code: 050120502

**Subject Name: Software Engineering and Quality Assurance Practical** 

	Session - 23 (Software testing using selenium)	
	Topics to be covered	
1	Page object Model:	
2	Benefits of Page object model: Object repository	
3	Reuse code, reduce duplication	
4	Implementation of page object model	

Essential List (Practical):	
1	Write a selenium code which use multiple pages as an object and display appropriate output.

Desirable List (Practical):	
1	Use different web elements of ljku web site to write the code for page object model.  Display appropriate output.



Subject Code: 050120502

**Subject Name: Software Engineering and Quality Assurance Practical** 

	Session - 24 (Software testing using selenium)	
	Topics to be covered	
1	Revision	
2	Revision	
3	Doubt solving	
4	Doubt solving	

Essential List (Practical):	
1	Revision of programs

Desirable List (Practical):	
1	Revision of programs