

PROFESSIONAL CURRICULUM

FOUNDATION ROBOT CODER - LEVEL 2



Students will code 19 Software Robotics Projects using the Web, Excel, Email, Image scrapping and Data scrapping applications by participating in the following activities:

1A Advanced Web Automation

Student will learn how to create Robot to find the route from source point to destination point and get the shortest route to user email id using **Google Map Direction Robot**.

- ✓ Input Dialog Activity
- ✓ Concept of Variable
- ✓ Open Browser Activity
- ✓ Type Into Activity
- ✓ Click Activity
- ✓ H/W: Create a Robot to send the direction details to your phone number using Google Map.



5A Data Scrapping

Student will learn how to create Robot to extract the tabular data from Flipkart website using **Get Cheapest Price for Products Robot**.

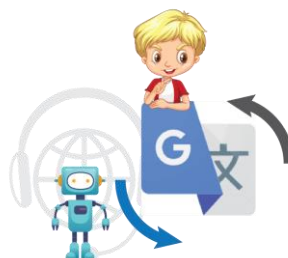
- ✓ How to automate Flipkart website
- ✓ Apply Data Scrapping on Flipkart website
- ✓ H/W: Create a Robot to get cheapest price for Samsung Mobiles online.



1B Advanced Web Automation

Student will learn how to create Robot to translate the text in different languages using **Translator Robot**.

- ✓ The concept of Array
- ✓ For Each Item Activity
- ✓ Get Text Activity
- ✓ Assign Activity
- ✓ Append Line Activity
- ✓ H/W: Create a Robot to translate the text "I love Robot" into the Japanese language.



5B Data Scrapping

Student will learn how to create Robot to extract weather information using **Weather Forecasting Robot**.

- ✓ How to extract the weather information from www.google.com
- ✓ How to store extracted information in excel file.
- ✓ H/W: Create a Robot to get 14 Days Weather Forecasting Report Information for "New York City".



2 Programming Concepts

Student will learn how to create Robot to perform arithmetic operation in Calculator desktop application using **Calculator Robot**.

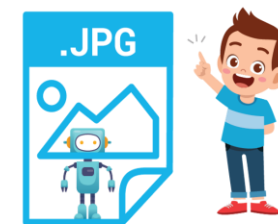
- ✓ Open Application Activity
- ✓ The concept of selectors
- ✓ Introduction about OCR Engines
- ✓ Get OCR text activity
- ✓ H/W: Create a Robot to solve the expression $23 + (8/2) - 5$ using calculator (BODMAS rule)



6 Screen Scrapping

Student will learn how to create Robot to extract the text from an image using **Extracting Text from Image Robot**.

- ✓ Load Image Activity.
- ✓ The concept of image scrapping
- ✓ Different scrapping methods and OCR engines
- ✓ Tesseract OCR engine.
- ✓ H/W: Create a Robot to extract the text from given image.



3 Excel Automation

Student will learn how to create Robot to automate Excel desktop application and perform some operation on excel file using **Excel Automation Robot**.

- ✓ Excel Application Scope Activity
- ✓ Insert/Delete Rows Activity
- ✓ Insert/Delete Columns Activity
- ✓ Remove Duplicate Rows Activity
- ✓ Get Cell Color Activity
- ✓ Set Range Color Activity
- ✓ H/W: Create an Excel robot to perform activities like:
 1. Insert/delete column and row: 2 Rows, position-10
 2. Set range color and get cell color : Cyan, Gold
 3. Remove duplicate range



7 Google Form Automation

Student will learn how to create Robot to automate Google Form using **Student Information Form Filling Robot**.

- ✓ Read Range Activity.
- ✓ For Each Row Activity
- ✓ The concept of Data Table
- ✓ H/W: Create a Robot to fill Slam Book Information.



4 Email Automation

Student will learn how to create Robot to download all the attachments from user email id using **Email Attachments Download Robot**.

- ✓ Get IMAP Mail Message Activity
- ✓ For Each Activity
- ✓ Save Attachment Activity
- ✓ H/W: Create a Robot to download Timesheet excel sheet from email.



8 Mobile Automation

Student will learn how to create Robot to automate mobile phones using **Mobile Automation Robot**.

- ✓ Connection with "browserstack.com"
- ✓ Adding mobile device using Mobile Device Manager
- ✓ Adding application using Mobile Device Manager
- ✓ Mobile Device Connection Activity
- ✓ Tap Activity
- ✓ Set Text Activity
- ✓ Get Text Activity
- ✓ Message Box

