



# P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

**Fifth Semester, B.E. - Information Science and Engineering**

**Semester End Examination; Feb. - 2021**

**Robotic Process Automation**

Time: 3 hrs

Max. Marks: 100

### Course Outcomes

The Students will be able to:

CO1: Illustrate Robotic Process Automation technology with simple examples using UiPath Studio.

CO2: Apply UiPath programming techniques and explore various data manipulation techniques.

CO3: Explore various data extraction techniques and Integrate with various popular applications such as SAP and MS Office.

CO4: Debug a programmed robot including logging and exception handling.

CO5: Maintain code version, source control and deploy and control Bots with UiPath Orchestrator.

**Note:** I) PART - A is compulsory. Two marks for each question.

II) PART - B: Answer any **Two** sub questions (from a, b, c) for Maximum of **18 marks** from each unit.

Q. No.	Questions	Marks	BLs	COs	POs
<b>I : PART - A</b>		<b>10</b>			
I a.	State the purpose of a Task recorder.	2	L1	CO1	PO1
b.	List out the types of variable available with UiPath.	2	L1	CO2	PO1
c.	List out any two advantages of UiPath's SAP Automation.	2	L1	CO3	PO1
d.	Write down the steps to disable crash dumps.	2	L1	CO4	PO1
e.	List any four best practices that need to be considered, while working on an automation project.	2	L1	CO5	PO1
<b>II : PART - B</b>		<b>90</b>			
<b>UNIT - I</b>		<b>18</b>			
1 a.	Identify and explain any five industries, which can take benefits from Robotic Process Automation.	9	L2	CO1	PO1
b.	Explain the following:	9	L2	CO1	PO1
	i) UiPath Studio                      ii) UiPath Robot                      iii) UiPath Orchestrator				
c.	State the purposes of the following:	9	L1	CO1	PO1
	i) Properties Panel                      ii) Variable Panel				
	iii) Activity Panel                      iv) Output Panel                      v) Project Panel				
<b>UNIT - II</b>		<b>18</b>			
2 a.	What are flowchart and when to use them? Explain with an example.	9	L2	CO2	PO1
b.	Consider an array of names. List the steps to create automation where the number of names starting with 'b' is counted and the result is displayed in the MessageBox using Sequence and Control flow.	9	L3	CO2	PO1
c.	Write down the steps to build a data table using data scrapping.	9	L3	CO2	PO1

**UNIT - III****18**

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|---|---|----|-----|-----|
| 3 a. List out and explain the activities that help in finding the controls.     | 9 | L2 | CO3 | PO1 |
| b. Discuss the entities used by RPA developer to tackle typical failure points. | 9 | L2 | CO3 | PO1 |
| c. Discuss the methodologies that are used extensively for Web integration.     | 9 | L2 | CO3 | PO1 |

**UNIT - IV****18**

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|--|---|----|-----|-----|
| 4 a. Write down the steps to create an automation to monitor a send email event through Gmail. | 9 | L3 | CO4 | PO1 |
| b. Explain the procedure for Launching an assistant bot on a keyboard event.                   | 9 | L2 | CO4 | PO1 |
| c. Define Exception handling. Demonstrate handling of exceptions with an example.              | 9 | L3 | CO4 | PO1 |

**UNIT - V****18**

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|--|---|----|-----|-----|
| 5 a. Explain the following:  |   |    |     |     |
| i) Nesting workflows   | 9 | L2 | CO5 | PO1 |
| ii) Reusability of workflows   |   |    |     |     |
| b. When to use flowchart, State Machines, or Sequence? Explain with an example.    | 9 | L2 | CO5 | PO1 |
| c. Explain the steps that need to be followed to deploy the Robot to Orchestrator. | 9 | L2 | CO5 | PO1 |

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