



Kot Bhalwal, Jammu



Model Institute of Engineering
& Technology (Autonomous)
Course Handout

COURSE HANDOUT

Robotic Process Automation (MBA-343)

MBA-3ND SEMESTER

ACADEMIC YEAR (2024-25)

Ms. Veena Tripathi

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Department of Computer Science & Engineering



PG School of Management MBA

Model Institute of Engineering & Technology (Autonomous)

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Dr. Arun K. Gupta Teaching-Learning Centre

Version 1.1



Please Do Not Print Unless Necessary



Course Code	Course Name	Course Type	Cd	L	T	P	Marks		
							Sessional	Final Exam	Total
MBA-343	Robotic Process Automation	Elective	4	4	0	0	30	70	100

COURSE OUTCOMES

At the end of the course the student will be able to:	
CO1	Define RPA and automation and explain their impact on digital transformation.
CO2	Describe the role of a Business Analyst throughout each of the stages of an RPA implementation.
CO3	Choose processes that are suitable for discovery with UiPath Process Mining.
CO4	Use the Build Diagram and Capture Process methods to map a process and edit the output.
CO5	Identify suitable processes and user groups for Task Mining projects.

Unit-I

Introduction to RPA and Business analysis fundamentals: Introduction to RPA and Automation, Automation driving the digital transformation, Automation in business, Introduction to RPA business analyst-Role, skills and Challenges, Prepare RPA and solution design, Build RPA and test RPA, Stabilize RPA and constant improvement..

(10 Hours)

Unit-II

RPA Process Mining: Introduction to Process discovery, Manual versus technology led process discovery, Discovery with UI-Path, Introduction to UI-Path Process Mining, Uses and working of UI-path process mining, Process mining stages, tasks and Roles

(10 Hours)

Unit-III

UI-Path Task Capture: Introduction to task capture, Get started with task Capture, Task capture interface and full preview, identifying process, using build diagram and capture processes, saving and exporting, Customizing task capture.

(9 Hours)

Unit-IV

UI-Path Task Mining: Introduction to UI-Path task mining, Task mining users, Stages of task mining project, selecting user group to analyze, collecting, and analyzing the data, visualizing the result, exporting the result, developing the automation.

(9 Hours)

Unit-V

UI-Path Automation Hub Overview: Introduction and need of Automation Hub, Getting started with Automation Hub, Personas and User Roles in Automation Hub ,Automation Ideas in Automation Hub ,Submitting and Employee-driven Automation Idea, Preview of the Automation Idea Lifecycle ,Preview of the Automation Lifecycle ,The Idea Approval and the Detailed Assessment ,Making the Most of Automation Hub as a Business User ,The integration with Task Capture and Process Mining ,The Automation Store.

(10 Hours)

Textbooks

S.No	Name of the Books	Name of the Author	Publisher Name	Edition (Pub.Yr.)
1	The Robotic Process Automation Handbook	Tom Taulli	Kindle	1ST Edition (2020)
2.	Robotic Process and Cognitive Automation	Mary C Lacity & Leslie P Willcocks	SB publishing	1ST Edition (2018)



Reference Books

S.No	Name of the Books	Name of the Author	Publisher Name	Edition (Pub.Yr.)
1	Robotic Process Automation and Risk Mitigation	Mary C. Lacity and Leslie P. Willcocks	SB Publishing	1st Edition (2017)

COURSE PLAN		
Unit-I Introduction to RPA and Business analysis fundamentals		
S.No	Topics	Recommended Books
1	Introduction to RPA and Automation	https://www.simplilearn.com/tutorials/rpa-tutorial/what-is-rpa#what_is_rpa
2	Automation driving the digital transformation	https://www.ibm.com/in-en/topics/rpa
3	Automation in business	https://drive.google.com/file/d/1xCiMyvDFP84oe6sVsa92BwvBqbc1zbQY/view?usp=sharing
4	Introduction to RPA business analyst-Role, skills and Challenges,	https://academy.uipath.com/courses/introduction-to-uipath-business-automation-platform-for-business-analysts
5	Prepare RPA and solution design	Book 1, Ch.1
6	Build RPA and test RPA	Book 1, Ch.1
7	Stabilize RPA and constant improvement	Book 1, Ch.1
Unit-II RPA Process Mining		
8	Introduction to Process discovery	https://academy.uipath.com/learningpath-viewer/6703/1/432720/30
9	Manual versus technology led process discovery	https://academy.uipath.com/learningpath-viewer/6703/1/432720/30
10	Discovery with UI-Path	https://academy.uipath.com/learningpath-viewer/6703/1/432720/30
11	Introduction to UI-Path Process Mining	https://academy.uipath.com/learningpath-viewer/6703/1/432720/30
12	Uses and working of UI-path process mining	https://academy.uipath.com/learningpath-viewer/6703/1/432720/30
13	Process mining stages, tasks and Roles	https://www.capgemini.com/consulting-fr/wp-content/uploads/sites/31/2017/08/robotic-process-automation-the-next-revolution-of-corporate-functions-0.pdf
Unit-III UI-Path Task Capture		
14	Introduction to task capture	https://academy.uipath.com/learningpath-viewer/6703/1/432720/30



		ngpath-viewer/9243/1/530412/30
15	Get started with task Capture	https://academy.uipath.com/learn ngpath-viewer/9243/1/530412/30
16	Task capture interface and full preview,	https://academy.uipath.com/learn ngpath-viewer/9243/1/530412/30
17	using build diagram and capture processes	https://academy.uipath.com/learn ngpath-viewer/9243/1/530412/30
18	Saving and exporting	https://academy.uipath.com/learn ngpath-viewer/9243/1/530412/30
19	Customizing task capture.	https://academy.uipath.com/learn ngpath-viewer/9243/1/530412/30
Unit-IV UI-Path Task Mining		
20	Introduction to UI-Path task mining	https://academy.uipath.com/learn ngpath-iewer/11183/1/563187/16
21	Task mining users	https://academy.uipath.com/learn ngpath-iewer/11183/1/563187/16
22	Stages of task mining project	https://academy.uipath.com/learn ngpath-iewer/11183/1/563187/16
23	selecting user group to analyze	https://academy.uipath.com/learn ngpath-iewer/11183/1/563187/16
24	collecting, and analyzing the data	https://academy.uipath.com/learn ngpath-iewer/11183/1/563187/16
25	visualizing the result	https://academy.uipath.com/learn ngpath-iewer/11183/1/563187/16
26	exporting the result	https://academy.uipath.com/learn ngpath-iewer/11183/1/563187/16
27	developing the automation	
Unit-V UI-Path Automation Hub Overview		
28	Introduction and need of Automation Hub	https://academy.uipath.com/learn ngpath-iewer/10154/1/547175/16
29	Getting started with Automation Hub	https://academy.uipath.com/learn ngpath-iewer/10154/1/547175/16
30	Personas and User Roles in Automation Hub	https://academy.uipath.com/learn ngpath-iewer/10154/1/547175/16
31	Automation Ideas in Automation Hub	https://academy.uipath.com/learn ngpath-iewer/10154/1/547175/16
32	Submitting and Employee-driven Automation Idea	https://academy.uipath.com/learn ngpath-iewer/10154/1/547175/16
33	Preview of the Automation Idea Lifecycle	https://academy.uipath.com/learn ngpath-iewer/10154/1/547175/16
34	The Idea Approval and the Detailed Assessment	https://academy.uipath.com/learn ngpath-iewer/10154/1/547175/16
35	Making the Most of Automation Hub as a Business User	https://academy.uipath.com/learn ngpath-iewer/10154/1/547175/16
36	The integration with Task Capture and Process Mining	https://academy.uipath.com/learn ngpath-iewer/10154/1/547175/16
37	The Automation Store.	https://academy.uipath.com/learn ngpath-iewer/10154/1/547175/16



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ADDITIONAL WEB RESOURCES

1.	MOOC: RPA Basics and Introduction to UiPath https://www.coursera.org/videos/rpa-basics-and-introduction-to-path/EkuCP?query=rpa&source=search
2.	NPTEL: Video lectures on Introduction to robotics series By Prof. Asokan T, Prof. Balaraman Ravindran, Prof. Krishna Vasudevan IIT Madras https://onlinecourses.nptel.ac.in/noc20_de11/preview

GRADING AND ASSESSMENT

- **Sessional Test:** 10 marks
- **Assignment:** 10 marks
- **Attendance:** 10 marks
- **Final Examination:** 70 marks

COURSE POLICIES

- **Attendance:** Minimum 75% attendance is mandatory to appear in the final examination of the course.
- **Academic Integrity:** MIET's academic integrity policies apply. Plagiarism will not be tolerated.
- **Late Submissions:** Assignments and projects must be submitted by the specified timelines.

FACULTY INFORMATION

- **Office Hours**
Monday (1:30PM - 2:35 PM)
Friday (1:30 PM - 2:35 PM)
- **Contact Information**
veena.it@mietjammu.in