



Value added course in

MICROSOFT TECHNOLOGY ASSOCIATE: INTRODUCTION TO PROGRAMMING USING PYTHON

21st January to 14th February 2020

PROF. KHUSHABU TRIVEDI
SPEAKER

PROF. SNEHA SARODE
COORDINATOR

DR. BISWAJEET CHAMPATY
HEAD-SCHOOL OF ENGINEERING



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School of Engineering

Name of Certificate Course: Microsoft Technology Associate: Introduction to programming using Python

Certificate Course for Undergraduate Students

Course Duration: 40Hrs

From: 21/01/2020 **to:** 14/02/2020

Course Objectives:

- Prove that you have the AI skills it takes to build a better world. Earning your Azure AI Fundamentals certification can supply the foundation you need to build your career and demonstrate your knowledge of common AI and machine learning workloads and what Azure services can solve for them.
- Validate your foundational knowledge of machine learning and AI concepts, along with related Azure services.

Course Outcomes:

- Student will able to understand how Machine learning algorithms implement on azure
- Students will able to lean Microsoft Azure Cloud.
- Students will able to understand concept of Machine learning.

Course Coordinator: Prof. Sneha Sarode



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School of Engineering
Ajeenkya DY Patil University
Charholi Bk., Via-Lohegaon,
Pune-412105

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School of Engineering

Date: 12/01/2020

Circular

Dear Students

For the academic year 2019-2020, the School of Engineering offers you Innovative Value Added Course which shall help you excel in career as well as equip you with new age creative and technical skills essential to face new world.

Title of Certificate Course: Microsoft Technology Associate: Introduction to programming using Python

Details of Trainer: Prof. Khushabu Trivedi

Name of Coordinator: Prof. Sneha Sarode

Duration of Course: 40 Hrs

Schedule: 21/01/2020 to: 14/02/2020

Timing: 10:30 AM to 04:00 PM

Venue: School of Engineering

Evaluation Method: 75% Attendance & 60% marks to score in MCQ test is mandatory to get certified in this training program.



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Certificate Course in Microsoft Technology Associate: Introduction to programming using Python

Syllabus

Session 1: Introduction to AI

(8 hours)

- Describe AI workloads and considerations
- Identify features of common AI workloads
- Identify prediction/forecasting workloads
- Identify computer vision workloads
- Identify features of anomaly detection workloads
- Identify capabilities and features of AI

Session 2: Natural Language Processing and Conversational AI (8 hours)

- Identify natural language processing workloads
- Identify knowledge mining workloads
- Identify conversational AI workloads

Session 3: Responsible AI

(8 hours)

- Identify guiding principles for responsible AI
- Describe considerations for fairness, reliability, and safety in AI solutions
- Consider privacy, security, inclusiveness, transparency, and accountability in AI

Session 4: Machine Learning on Azure

(8 hours)

- Describe fundamental principles of machine learning on Azure
- Identify common machine learning types
- Identify classification, regression, and clustering scenarios
- Explain core machine learning concepts
- Describe data preparation, feature engineering, and model training • Explain evaluation, deployment, and management of models
- Select and interpret model evaluation metrics

Session 5: Computer Vision Workloads on Azure

(8 hours)

- Describe features of computer vision workloads on Azure
- Identify common types of computer vision solutions, including image classification and object detection
- Identify optical character recognition tasks
- Identify Azure tools and services for computer vision, such as facial detection and recognition
- Identify capabilities of Computer Vision and Custom Vision services on Azure





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Teaching Plan:

Date	Topic to be Covered
21st January 2020	Session 1: Introduction to AI - AI workloads and considerations - Features of AI workloads (4 hours)
22nd January 2020	Session 1: Introduction to AI (continued) - Prediction/forecasting workloads - Computer vision workloads - Anomaly detection workloads - AI capabilities and features (4 hours)
23rd January 2020	Session 2: Natural Language Processing and Conversational AI - Natural language processing workloads - Knowledge mining workloads (4 hours)
24th January 2020	Session 2: Natural Language Processing and Conversational AI (continued) - Conversational AI workloads (4 hours)
27th January 2020	Session 3: Responsible AI - Guiding principles for responsible AI - Fairness, reliability, and safety considerations in AI (4 hours)
28th January 2020	Session 3: Responsible AI (continued) - Privacy, security, inclusiveness, transparency, accountability in AI (4 hours)
29th January 2020	Session 4: Machine Learning on Azure - Fundamental principles of machine learning on Azure - Common machine learning types (4 hours)
30th January 2020	Session 4: Machine Learning on Azure (continued) - Classification, regression, and clustering scenarios - Core ML concepts, data preparation, feature engineering (4 hours)
31st January 2020	Session 4: Machine Learning on Azure (continued) - Model training, evaluation, deployment, and management - Model evaluation metrics (4 hours)



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3rd February 2020	Session 5: Computer Vision Workloads on Azure - Features of computer vision workloads on Azure - Image classification and object detection (4 hours)
4th February 2020	Session 5: Computer Vision Workloads on Azure (continued) - Optical character recognition tasks - Azure tools and services for computer vision (4 hours)
5th February 2020	Session 5: Computer Vision Workloads on Azure (continued) - Facial detection and recognition - Computer Vision and Custom Vision services on Azure (4 hours)



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Timetable

Date	Time	Topic
21st January 2020	10:30 AM - 04:00 PM	Session 1: Introduction to AI (Part 1)
22nd January 2020	10:30 AM - 04:00 PM	Session 1: Introduction to AI (Part 2)
23rd January 2020	10:30 AM - 04:00 PM	Session 2: Natural Language Processing and Conversational AI (Part 1)
24th January 2020	10:30 AM - 04:00 PM	Session 2: Natural Language Processing and Conversational AI (Part 2)
27th January 2020	10:30 AM - 04:00 PM	Session 3: Responsible AI (Part 1)
28th January 2020	10:30 AM - 04:00 PM	Session 3: Responsible AI (Part 2)
29th January 2020	10:30 AM - 04:00 PM	Session 4: Machine Learning on Azure (Part 1)
30th January 2020	10:30 AM - 04:00 PM	Session 4: Machine Learning on Azure (Part 2)
31st January 2020	10:30 AM - 04:00 PM	Session 4: Machine Learning on Azure (Part 3)
3rd February 2020	10:30 AM - 04:00 PM	Session 5: Computer Vision Workloads on Azure (Part 1)
4th February 2020	10:30 AM - 04:00 PM	Session 5: Computer Vision Workloads on Azure (Part 2)
5th February 2020	10:30 AM - 04:00 PM	Session 5: Computer Vision Workloads on Azure (Part 3)



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Certificate Course in Microsoft Technology Associate: Introduction to programming using Python

List of Students

Sr. No.	URN	Name of student
1	2019-B-13042001	Abhisekha Sudarsan Pradhan
2	2019-B-28022001C	Abhishek Rajesh Kalantri
3	2019-B-24082001A	Abhishek Ravindra Javalkoti
4	2019-B-18022002	Aditya Amrut Bhandari
5	2019-B-01112000A	Aditya Kumar Verma
6	2019-B-09052001	Adnan Imtiyaz Shaikh
7	2019-B-08012001	Akash Rajesh Pathak
8	2019-B-04072001A	Akash Suresh Patil
9	2019-B-29052000	Akshat Sudhanshu Srivastava
10	2019-B-06032000	Amritanshu Vishwajeet Nandkeolyar
11	2019-B-23032002	Amrutha Amarender Vanaparthi
12	2019-B-30052001	Anand Fattelal Chandak
13	2019-B-21062001A	Anjali Pradeep Kumari
14	2019-B-04072002	Anshul Narendra Kumar Agarwal
15	2019-B-02082001	Anushree Vinod Chourasia
16	2019-B-03052000	Anushri Jeetendra Upadhye
17	2019-B-05122001	Apurva Bhushan Patil
18	2019-B-26082001	Arjun Jagdish Rakwal
19	2019-B-28092001C	Arpit Rajesh Singh
20	2019-B-04112000	Ayushi Harishchandra Gupta
21	2019-B-03052002	Bhanu Pratap Singh
22	2019-B-21012001	Bhavya Jayesh Vora
23	2019-B-21122001	Biswojeet G Samal
24	2019-B-13072001B	Chaitanya Pawar
25	2019-B-30122001A	Chaitanya Rajesh Sethia
26	2019-B-08122000B	Chirag Rajendra Agrawal

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27	2019-B-21072001	Hanesh Sunil Jogani
28	2019-B-08022001	Harsh Hasmukhbhai Vasoya
29	2019-B-01052001	Harsh Pravinbhai Moradiya
30	2019-B-28102001	Harshvardhan Lallan Singh
31	2019-B-17082001	Hetvi Atulbhai Bhattasana
32	2019-B-07112001	Himanshi Sandeep Gomber
33	2019-B-21032001	Jaineel Alpesh Petiwale
34	2019-B-28092001A	Jainil Kiritkumar Gajjar
35	2019-B-28092001	Janhavi Nilesh Ghogle
36	2019-B-26092001	Jinnish Prakash Dalal
37	2019-B-20022001A	Jitesh Nitesh Singh
38	2019-B-15112000B	Kamlesh Subodh Raw Kumar
39	2019-B-28092001B	Kastup Raj Bhattarai
40	2019-B-02042001	Kunal Dinesh Biswas
41	2019-B-19102000	Kushagra Jitendra Goel
42	2019-B-01022001	Lokesh Devendra Satpute
43	2019-B-29012001	Malay Arvind Parmar
44	2019-B-21082001	Mayur Nitesh Agrawal
45	2019-B-07082000	Tarang Manish Kataria
46	2020-B-15091995	Omkar Dayal
47	2020-B-12012001A	Deeksha Tomar
48	2020-B-25111999	Glavian castelino
49	2019-B-22102001A	Dhriti Santosh Dogra
50	2019-B-09042001B	Merlyn Eugene Rosario
51	2019-B-08072002A	Mridul Yogesh Mishra
52	2019-B-08072002	Nisha Dashrath Sahu
53	2019-B-12112000B	Pankaj Ram Prasad Mandal
54	2019-B-22082001	Parul Himanshu Gandhe



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**Certificate Course in Microsoft Technology Associate: Introduction
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Students Attendance

S. N.	URN	Name of Student	21 - Jan	23 Jan	24 Jan	27 Jan	29 Jan	30 Jan	03 Feb	05 Feb	07 Feb	10 Feb	12 Feb	14 Feb
1	2019-B-13042001	Abhisekha Sudarsan Pradhan	1	1	1	1	1	1	1	1	1	1	1	1
2	2019-B-28022001C	Abhishek Rajesh Kalantri	1	1	1	1	1	1	1	1	1	1	1	1
3	2019-B-24082001A	Abhishek Ravindra Javalkoti	1	1	1	1	1	1	1	1	1	1	1	1
4	2019-B-18022002	Aditya Amrut Bhandari	1	1	1	1	1	1	1	1	A	1	1	1
5	2019-B-01112000A	Aditya Kumar Verma	1	1	1	1	1	1	1	1	1	1	1	1
6	2019-B-09052001	Adnan Imtiyaz Shaikh	1	A	1	1	1	1	1	1	1	1	A	1
7	2019-B-08012001	Akash Rajesh Pathak	1	1	1	1	1	1	1	1	1	1	1	1
8	2019-B-04072001A	Akash Suresh Patil	A	1	1	1	1	1	1	1	1	1	1	1
9	2019-B-29052000	Akshat Sudhanshu Srivastava	1	A	1	1	1	1	1	1	1	1	1	1
10	2019-B-06032000	Amritanshu Vishwajeet Nandkeolya	1	1	A	1	1	1	1	1	1	1	1	1

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11	2019-B-23032002	Amrutha Amarender Vanaparathi	1	1	A	1	1	A	1	1	1	1	1	1
12	2019-B-30052001	Anand Fattelal Chandak	1	1	1	1	A	1	1	1	1	1	1	1
13	2019-B-21062001A	Anjali Pradeep Kumari	1	1	1	1	1	1	1	1	1	1	1	1
14	2019-B-04072002	Anshul Narendra Kumar Agarwal	1	1	1	1	1	1	A	1	1	1	1	1
15	2019-B-02082001	Anushree Vinod Chourasia	1	1	A	1	1	1	1	1	1	1	1	1
16	2019-B-03052000	Anushri Jeetendra Upadhye	1	1	1	1	1	1	1	1	1	1	1	1
17	2019-B-05122001	Apurva Bhushan Patil	1	1	1	1	1	1	1	1	1	1	1	1
18	2019-B-26082001	Arjun Jagdish Rakwal	1	1	1	1	1	1	1	1	1	1	1	1
19	2019-B-28092001C	Arpit Rajesh Singh	1	1	1	1	1	1	1	1	1	1	1	1
20	2019-B-04112000	Ayushi Harishchandra Gupta	1	1	1	1	1	1	1	1	1	1	1	A
21	2019-B-03052002	Bhanu Pratap Singh	A	1	1	1	1	1	1	1	1	1	1	1
22	2019-B-21012001	Bhavya Jayesh Vora	1	1	1	1	1	1	1	1	1	1	1	1
23	2019-B-21122001	Biswojeet G Samal	1	1	1	1	1	1	1	1	1	1	1	1
24	2019-B-13072001B	Chaitanya Pawar	1	1	1	1	1	1	1	1	A	1	1	1



25	2019-B-30122001A	Chaitanya Rajesh Sethia	1	1	1	1	1	1	1	1	1	1	1	1
26	2019-B-08122000B	Chirag Rajendra Agrawal	1	A	1	1	1	1	1	1	1	1	A	1
27	2019-B-21072001	Hanesh Sunil Jogani	1	1	1	1	1	1	1	1	1	1	1	1
28	2019-B-08022001	Harsh Hasmukh bhai Vasoya	A	1	1	1	1	1	1	1	1	1	1	1
29	2019-B-01052001	Harsh Pravinbhai Moradiya	1	A	1	1	1	1	1	1	1	1	1	1
30	2019-B-28102001	Harshvardhan Lallan Singh	1	1	A	1	1	1	1	1	1	A	1	1
31	2019-B-17082001	Hetvi Atulbhai Bhattasana	1	1	1	1	1	1	1	1	1	1	1	1
32	2019-B-07112001	Himanshi Sandeep Gomber	1	1	1	1	1	1	A	1	1	1	1	1
33	2019-B-21032001	Jaineel Alpesh Petiwale	1	1	1	1	1	1	A	1	1	1	1	1
34	2019-B-28092001A	Jainil Kiritkumar Gajjar	1	1	1	1	1	1	1	1	1	1	1	1
35	2019-B-28092001	Janhavi Nilesh Ghogle	1	1	1	1	1	1	1	1	1	1	1	1
36	2019-B-26092001	Jinnish Prakash Dalal	1	1	1	1	1	1	A	1	1	1	1	1
37	2019-B-20022001A	Jitesh Nitesh Singh	1	1	A	1	1	1	1	1	1	1	1	1
38	2019-B-15112000B	Kamlesh Subodh Raw Kumar	1	1	1	1	1	1	1	1	1	1	1	1

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39	2019-B-28092001B	Kastup Raj Bhattarai	1	A	1	1	1	1	1	1	1	1	1	1
40	2019-B-02042001	Kunal Dinesh Biswas	1	1	A	1	1	A	1	1	1	1	1	1
41	2019-B-19102000	Kushagra Jitendra Goel	1	1	1	1	A	1	1	1	1	1	1	1
42	2019-B-01022001	Lokesh Devendra Satpute	1	1	1	1	1	1	1	1	1	1	1	1
43	2019-B-29012001	Malay Arvind Parmar	1	1	1	1	1	1	A	1	1	1	1	1
44	2019-B-21082001	Mayur Nitesh Agrawal	1	1	A	1	1	1	1	1	1	A	1	1
45	2019-B-07082000	Tarang Manish Kataria	1	1	1	1	1	1	1	A	1	1	1	1
46	2020-B-15091995	Omkar Dayal	A	1	1	1	1	1	1	1	A	1	1	1
47	2020-B-12012001A	Deeksha Tomar	1	1	1	1	1	1	1	1	1	1	1	A
48	2020-B-25111999	Glavian castelino	A	1	1	1	1	1	1	1	1	1	1	1
49	2019-B-22102001A	Dhriti Santosh Dogra	1	1	A	1	1	1	1	1	1	1	1	1
50	2019-B-09042001B	Merlyn Eugene Rosario	1	1	1	1	1	1	1	1	1	1	1	1
51	2019-B-08072002A	Mridul Yogesh Mishra	1	A	1	1	1	1	1	1	1	1	1	1
52	2019-B-08072002	Nisha Dashrath Sahu	1	1	A	1	1	A	1	1	1	1	1	1



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53	2019-B-12112000B	Pankaj Ram Prasad Mandal	1	1	1	1	A	1	1	1	1	1	1	1
54	2019-B-22082001	Parul Himanshu Gandhe	1	1	1	1	1	1	1	1	1	1	1	1



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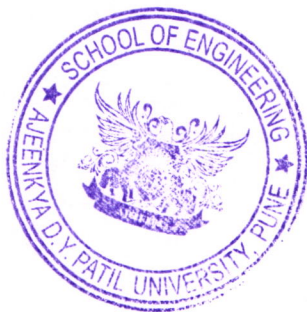
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Evaluation Plan

- 75 % attendance is mandatory for this training program.
- Student should get a minimum 60% score on the Multiple-Choice Questions Test.



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List of Students to Whom Certificates are Distributed

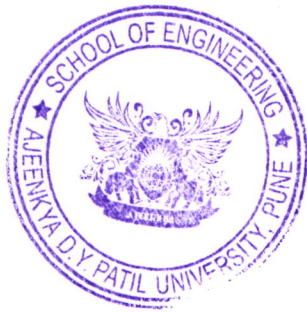
Sr. No.	URN	Name of student
1	2019-B-13042001	Abhisekha Sudarsan Pradhan
2	2019-B-28022001C	Abhishek Rajesh Kalantri
3	2019-B-24082001A	Abhishek Ravindra Javalkoti
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5	2019-B-01112000A	Aditya Kumar Verma
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9	2019-B-29052000	Akshat Sudhanshu Srivastava
10	2019-B-06032000	Amritanshu Vishwajeet Nandkeolyar
11	2019-B-23032002	Amrutha Amarender Vanaparathi
12	2019-B-30052001	Anand Fattelal Chandak
13	2019-B-21062001A	Anjali Pradeep Kumari
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17	2019-B-05122001	Apurva Bhushan Patil
18	2019-B-26082001	Arjun Jagdish Rakwal
19	2019-B-28092001C	Arpit Rajesh Singh
20	2019-B-04112000	Ayushi Harishchandra Gupta
21	2019-B-03052002	Bhanu Pratap Singh
22	2019-B-21012001	Bhavya Jayesh Vora
23	2019-B-21122001	Biswojeet G Samal
24	2019-B-13072001B	Chaitanya Pawar
25	2019-B-30122001A	Chaitanya Rajesh Sethia
26	2019-B-08122000B	Chirag Rajendra Agrawal
27	2019-B-21072001	Hanesh Sunil Jogani
28	2019-B-08022001	Harsh Hasmukhbhai Vasoy
29	2019-B-01052001	Harsh Pravinbhai Moradiya
30	2019-B-28102001	Harshvardhan Lallan Singh

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31	2019-B-17082001	Hetvi Atulbhai Bhattasana
32	2019-B-07112001	Himanshi Sandeep Gomber
33	2019-B-21032001	Jaineel Alpesh Petiwale
34	2019-B-28092001A	Jainil Kiritkumar Gajjar
35	2019-B-28092001	Janhavi Nilesh Ghogle
36	2019-B-26092001	Jinnish Prakash Dalal
37	2019-B-20022001A	Jitesh Nitesh Singh
38	2019-B-15112000B	Kamlesh Subodh Raw Kumar
39	2019-B-28092001B	Kastup Raj Bhattarai
40	2019-B-02042001	Kunal Dinesh Biswas
41	2019-B-19102000	Kushagra Jitendra Goel
42	2019-B-01022001	Lokesh Devendra Satpute,
43	2019-B-29012001	Malay Arvind Parmar
44	2019-B-21082001	Mayur Nitesh Agrawal
45	2019-B-07082000	Tarang Manish Kataria
46	2020-B-15091995	Omkar Dayal
47	2020-B-12012001A	Deeksha Tomar
48	2020-B-25111999	Glavian castelino
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50	2019-B-09042001B	Merlyn Eugene Rosario
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School of
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CERTIFICATE OF PARTICIPATION & COMPLETION

This is to certify that, Mr./Ms. Abhisekha Sudarsan Pradhan of

SOE, ADYPU, Pune

has enrolled and successfully completed the Value Added Course entitled **Microsoft Technology**

Associate: Introduction to programming using Python organized by the School of

Engineering, Ajeenkya DY Patil University, Pune held during 21/01/2020 to 14/02/2020.

Prof. Sneha Sarode
Co-ordinator

Dr. Biswajeet Champaty
Head, SOE ADYPU



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