

MIT Arts, Commerce & Science College

Alandi (D), Pune - 412105

Department of Computer Application

Academic Year: 2018-19

Date: 20/02/2019

NOTICE

All the students of BBA(CA) are hereby informed that Department of Computer Application have organized 'Workshop on IOT using Python (Microsoft Certification) by Corecode IT Solutions Pvt Ltd., A Microsoft -AEP(Authorized Education Partner). Students are requested to avail this opportunity.

Date :- 22/02/2019 & 26/02/2019

Time :- 10:00 AM to 4:00 PM

Venue :- Lab 1,2,3

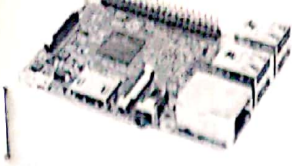


Prof. Akshada Kulkarni
HOD-Computer Application



Dr. B. B. Waphare
Principal





Course Content for 3-Day Workshop on IOT

1. Understanding and Introduction to Raspberry Pi 3 (11Hrs)

- What is SOC?
- Versions of Raspberry Pi & Their Difference
- Raspberry Pi 3
- Basics of Electronics
- Hardware Description
- Pin Configuration

2. OS Installation on SD Card (30Mins)

- Downloading Image
- Study Various Operating Systems Available
- Making SD Card: Formatting and Partitions
- Raspberry Pi SD Installer

3. OS Configuration (30Mins)

- Booting Into Desktop
- GUI Version
- CLI Desktop
- Changing Time zone
- Other Options
- Raspi-Config
- Test

4. Network Setup (30Mins)

- Setting Up Using GUI
- Setting Up Using Command Line
- Finding Pi's IP Address
- Connecting with Wi-Fi/ LAN/ Data card

5. GPIO (2hrs)

- Study GPIO Pins



- *Libraries Using Git*
- *Configuring GPIO Pins*

6. *PI using SSH (30Mins)*

- *Enabling SSH*
- *Logging in using Putty*
- *Run Basic Commands*
- *Use GPIO*

7. *Linux (5Hrs)*

- *Understanding Linux*
- *File Structure*
- *Linux Commands*
- *Permissions*

8. *Using Python (6Hrs)*

- *Understanding Python*
- *Interpreted Languages*
- *Variables, Keywords, Operators and Operands*
- *Data Types in Python*
- *Flow Control*
- *Condition Statement*
- *Loops*
- *Importing Libraries*
- *Functions*
- *Classes*

Wireless Technologies for IoT : WPAN Technologies for IoT: IEEE 802.15.4, Zigbee, HART, NFC, Z-Wave, BLE, Bacnet, Modbus.

IP Based Protocols for IoT: IPv6, 6LowPAN, RPL, REST, AMQP, CoAP, MQTT.

Throughout the Workshop following projects will be covered :-


1. Weather (Temp and Humidity) Station.
2. Build a cloud-ready temperature sensor with the Arduino Uno and the anyIoT Platform: This project shows the building of a temperature sensor.
3. IoT based Stepper Motor Control with Raspberry Pi: The combination of Raspberry Pi and IoT is an exciting one. Raspberry Pi has many general purpose I/O pins and has the ability to control different actuators like





stepper motors. In this project, an internet control of stepper motor using Raspberry PI computer is developed. The connectivity is divided into server side software and client side software.

4. IoT based Web Controlled Home Automation using Raspberry PI.
5. A Simple IoT Project with the ESP8266 WIFI module:
Here is a simple project with ESP8266 wi-fi module. This project collects the temperature and is displayed on the network.
6. Implement a RFID Based IoT Project

Remark - This syllabus is of Microsoft - MTA designed by Microsoft.


CAPARNA KHADE)
COURSE CO-ORDINATOR


PROF. AKSHADA KULKARNI
HOD, COMPUTER APPLICATION


DR. B. B. WAPHARE
PRINCIPAL



MEMORENDUM OF UNDERSTANDING

This Memorandum of Understanding is being executed on 14-Feb-2019 between M/s Corecode IT Solutions Pvt. Ltd., A Microsoft – AEP (Authorized Education Partner) having its registered Address: 238, UdyogVihar, Phase-IV, Gurgaon -122001 and represented by Mr.Niranjan Singh (Director Operations), hence for purpose of agreement known as "Delivery Partner" (DP) And MIT Arts Commerce and Science College, Alandi(D), Pune represented by Dr. B. B. Waphare (Principal), hence for purpose of agreement known as "Resource Partner".

1. Training will be provided free of cost by Corecode IT Solutions to students who enroll/buy the certification exam.
2. Program Details

Sr. No	Certification mapped free Workshop	Certification Exam Cost with two Attempts after discount	Reg Amount	Balance Fees	Program Duration
1	IOT using Python Mapped to Microsoft MTA exam 98-381	2690 + 18% GST/- Students will get 2 nd attempt sponsored For free	Rs.1000	Rs. 2174/- to be paid when free workshop starts	18-20hrs (3days)
2	Security Fundamentals Mapped to MTA exam 98-367	2690 + 18% GST Students will get 2 nd attempt sponsored For free	Rs. 1000	Rs. 2174/- to be paid when free workshop starts	18-20hrs (3 days)
3	Web Development using HTML 5 or ASP.net Mapped to MTA exam 98-375/98-372	2690 + 18% GST Students will get 2 nd attempt sponsored For free	Rs. 1000	Rs. 2174/- to be paid when free workshop starts	18-20 hrs (3 days)



4	CPMA using HTML 5, CSS, Javascript	2690 + 18% GST Students will get 2 nd attempt sponsored For free	Rs. 1000	Rs. 2174/- to be paid when free workshop starts	18-20 hrs (3 days)
5	Machine Learning using Python Mapped to MTA 98-381	2690 + 18% GST Students will get 2 nd attempt sponsored For free	Rs. 1000	Rs. 2174/- to be paid when free workshop starts	18-20 hrs (3 days)
6	Data Analytics using R Customised Training	2990 + 18% GST Students will get 2 nd attempt sponsored For free	Rs. 1000	Rs. 2528/- to be paid when free workshop starts	20-22 hrs (3-4 days)
7	Advanced Excel Mapped with MOS exam 77-420	2690 + 18% GST Students will get 2 nd attempt sponsored For free	Rs. 1000	Rs. 2174/- to be paid when free workshop starts	18-20 hrs (3 days)

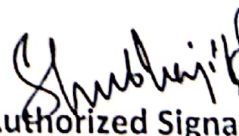
3. Fees will be directly collected by Corecode In case of the college / institution collects the same, they would transfer it max within 7 days of collecting it.
4. The fee charged is against Microsoft Certification exam & all other services are complimentary / bundled free & cannot be linked anywhere with the release of payment to Corecode (Corecode IT Solutions Pvt. Ltd.)
5. Resource partner would provide training slots during holidays /weekends within the college premises of min 6-8 hrs. for each session either during regular college or on weekends sat/sun, after due consultation with Delivery Partner and based on the availability of trainer. The duration of the training may increase as per the level of participants & shall not be linked with the release of payments.



6. The tenure of the contract would be for a period of three years i.e. from 14th Feb 2019 to 13th Feb 2022, once the agreement is signed between Resource Partner & Delivery Partner, the same cannot be terminated for at least one year from the signing of agreement.
7. Prices & Contents of the training module(s) may be reviewed & revised at the time of renewal of MOU.
8. Delivery Partner would provide a free faculty development program (2 days) for faculties of "Resource Partner" and provide exam vouchers equivalent to 10% of students enrolled.
9. "Resource Partner" would be Provided 10% 'Resource Utilization Fees' against use of infrastructure and other resources for the bundled free training.
10. Students would be receiving the Certificates and other materials in e format.
11. Internship Opportunities & Student Exchange Programme for Certified Students.
12. "Resource Partner" will provide the prerequisite infrastructure like lab(s) with Computers, LCD Projector(s), internet etc. required for training.
13. In Case of any dispute or difference whatsoever arising between the parties out of relating to the construction, meaning, scope, operation or effect of this contract or the validity or the breach there of shall be settled by arbitration in accordance with the Rules of Arbitration of the Indian Council of Arbitration and the award made in pursuance thereof shall be binding on the parties. "However, the court of jurisdiction would be New Delhi."
14. "Resource Partner" cannot hire any resource or take services from any current ex-employee of the Delivery Partner either directly or indirectly for any full time or part time assignment (Only for mentioned modules in agreement/MOU) without the permission of the Delivery Partner for a minimum period of one year that also after the contract with the college has expired.
15. "Resource Partner" must follow from time to time rules / regulation & operational protocols laid down by Microsoft /other international vendors for their respective certification.
16. "Resource Partner" must issue a letter of successful completion once the program is completed on college letter head.


Sign. of College Authority




Authorized Signatory

MIT Arts Commerce & Science College

Principal
MIT Arts, Commerce & Science College
Alandi, Pune - 412 105.



Corecode IT Solutions Pvt. Ltd.

List of Students Registered For Microsoft Certification Course of IOT using Python

s.no	Name Of Students	Class	Mobile No.
1	Karan Mehta	TY BCA-'A'	7719911587
2	Ankita Kokate	TY BCA-'A'	7020685723
3	Peeyush Kumar	SY BCA-'B'	7744890867
4	Akash Gauri Shankar	TY BCA-'A'	8446642710
5	Kiran Bari	SY BCA-'A'	9049790966
6	Jyoti Shinde	SY BCA-'A'	9421990583
7	Rutiya Gosavi	SY BCA-'A'	7447673558
8	Mihir Wagle	SY BCA-'A'	9404311412
9	Mrunali Suryawanshi	SY BCA-'A'	9527345658
10	Akhilesh Verma	SY BCA-'A'	8208007159
11	Pranalee Solaskar	SY BCA-'A'	9130107486
12	Vaibhav Vishwam	SY BCA-'B'	7277875530
13	Abhishek Ramesh	SY BCA-'B'	9767975629
14	Samrendra Singh	SY BCA-'B'	7028327830
15	Niraj P. Wadgare	SY BCA-'B'	7875169465
16	Abhiram S. Borwankar	SY BCA-'B'	9834405501
17	Shubham A. Manjekar	SY BCA-'B'	8830118213
18	Praneet Sarkar	SY BCA-'B'	7218734037
19	Vidya Borhade	SY BCA-'A'	7057785207
20	Abhinav Saxena	TY BCA-'B'	7261973113
21	Chetan Kumar	TY BCA-'B'	9146513191
22	Swapnil Karajanagi	SY BCA-'A'	9665822770
23	Varun Kumar	SY BCA-'A'	7218852791
24	Aniket Walunj	SY BCA-'A'	9860634643
25	Aishwarya Bhosale	SY BCA-'A'	8087415090
26	Khushbu Sisodiya	SY BCA-'A'	8446966134
27	Sourabh Gore	SY BCA-'A'	8788219637
28	Syed Aman Ahmed	SY BCA-'A'	9423805192
29	Mansi Upadhyay	SY BCA-'A'	7752875251
30	Mohammad Danish	TY BCA-'B'	7785921859

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Akshada Kulkarni
Head Computer Application
26-2-19

Rs. 2174/- only per student.



Name

Python Certification:-

Signature 15/4/19

Marks

Name	Signature	Marks
1) Karan Mehta		
2) Akash Gauri Shaukar	Akash	65
3) Ankita Kokate	Ankita	86
4) Rutuja Nagwananwar		
5) Chetan Kumar	chetan	80
6) Abhinav Saxena	Abhinav	89
7) Varun Kumar	Varun	
8) Aishwarya Bhosale	Aishwarya	86
9) Mrunali Suryawanshi	Mrunali	83
10) Rutuja Gosavi	Rutuja	86
11) Pranali Sodaskar	Pranali	83
12) Shikha Agarwal		
13) Mansi Upadhyay	Mansi	85
14) Vaibhav Vishwam	Vaibhav	81
15) Mihir Wagle	Mihir	83
16) Syed Aman Ahmed	Syed Aman	76
17) Swapnil Karajanagi	Swapnil	
18) Aniket		
19) Kiran Bari	Kiran	83
20) Vidya Borhade	Vidya	75
21) Abhiram Borwanekar	Abhiram	82
22) Abhishek Ramosh		
23) Samrendra Singh	Samrendra	85
24) Neeraj Wadgure	Neeraj	89
25) Danish Mohammed Mohammad Danish	Danish	85
26) Peeyush Kumar Peeyush Kumar	Peeyush	90
27) Abhishek Ramosh	Abhishek	87
28) Jyoti Shinde	Jyoti	82



28] Mahesh Tambde

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29] Akhilesh Varma

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30] Aniket Walunj

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MIT Arts, Commerce & Science College, Aland¹¹D), Pune-412105

Department of Computer Application

Microsoft Certification Exam

Course: IOT using Python

Attendance Record

Date: 15/04/2019 Time: 10:00 AM to 12:00 Noon

Sr. No.	Name	Class	Mobile Number	Email Id	Sign
1	Akash Gaurishankar	TYBCA	8446642710	akashgo710@gmail.com	Akash
2	Abhinav Saxena	TYBCA	7261973113	abhinavs162@gmail.com	Abi
3	Chetan Kumar	TYBCA	9146513191	wlpchetan@gmail.com	Chetan
4	Minali Suryawanshi	SYBCA	9527345658	minali.suryawanshi@gmail.com	Minali
5	Prayush Kumar	SYBCA	9028876191	Kprayush6@gmail.com	Prayush
6	Syed Aman Ahmed	SYBCA	9423805192	amanahmed0070rediffmail.com	Aman
7	Abhiram Borwankar	SYBBA(CA)	9834405501	abhiramborwankar@gmail.com	Abhiram
8	Vidya Borhade	SYBBA(CA)	9766615207	vidyaborhade310@gmail.com	V.V Borhade
9	Mansi Upadhyay	SYBBA(CA)	7752875251	mansiupadhyay9794@gmail.com	Mansi
10	Swapnil Karajanagi	SYBBA(CA)	9665822770	swapnilkarajanagi12@gmail.com	Swapnil
11	Mohammad Danish	SYBBA(CA)	9511935821	dmohammad464@gmail.com	Danish
12	Ankita Kokate	TYBBA(CA)	9923801081	ankukokate00@gmail.com	Ankita
13	Aniket Walunj	SYBBA(CA)	703090760	aniketwalunj16@gmail.com	Aniket
14	Varun Kumar	SYBBA(CA)	7218852797	Varun06rail998@gmail.com	Varun
15	Abhishek Ramesh	SYBBA(CA)	9767975629	abhishek.ramesh22145@gmail.com	Abhish

DATE: _____

17	Vaibhav Vishwanath	SYBBA-(CA)	7277875530	vaidharishanapat@gmail.com	Vishwanath
18	Samruendra Singh	SYBBA-(CA)	7028324830	samruendra.prabap12@gmail.com	Singh
18	Niraj Wadgure	SYBBA-(CA)	7875169465	niraj.wadgure@gmail.com	Wadgure
19	Kiran Bari	SYBBA-(CA)	8805078268	kiran.bari211097@gmail.com	Bari
20	Akhil Varma	SYBBA-(CA)	8208007159	akhil6299@gmail.com	Varma
21	Rashmi Agarwal	SYBBA-CA	7447673558	ragarwal949@gmail.com	Agarwal
22	Panali Solankar	SYBBA-CA	9130107486	PanaliSolankar17@gmail.com	Solankar
23	Tyoti Shinde	SYBBA(CA)	9421990583	Tyoti069020@gmail.com	Shinde
24	Karan Mehta	TY BBA(CA)	7719911587	mehtakaran436@gmail.com	Mehta
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31	<u>Abhishek</u>			<u>Abhishek</u>	
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CORECODE IT SOLUTIONS Pvt. Ltd.

INVOICE

CUM (DEBIT / CREDIT MEMO)

TO	PAN NO:- AAEC8030H Corecode IT Solutions Pvt. Ltd.	DATE: 26 th February ,2019
MIT Arts Commerce & Science College (MIT ACSC) - Alandi, Pune, Maharashtra 412105		
Invoice No : Corecode/MITACSC/2018-2019/655	Course: IOT Using Python	

S.NO	Cr.no	Program Name	Number of Students	Rate	Amount	
001	Cc:1655	IOT Using Python	Total Registrations: Workshop = 1	30	2690	Rs.80,700
			18% GST on Rs.2690	30	484	Rs.14,520
			TOTAL	30	3174	Rs.95,220
			(--) RUF @ 10 % on base price Rs.2690 (Paid to MITACSC)	30	269	Rs.8,070
Amount in words (INR): Seventy Two thousand Six hundred Thirty only. /-			Final Amount Need to Receive from MITACSC ,Pune After deduction @ 10 % RUF from Base Amount	30		Rs.72,630

THIS BEING A COMPUTER GENERATED ERP- INVOICE ,DOES NOT REQUIRE ANY SIGNATURE

WE LOOK FORWARD TO YOUR CONTINUED PATRONAGE @ CORECODE IT SOLUTIONS PVT. LTD.



Website www.corecodetechno.in

CONTACT DETAILS:-+91-9654430770 Email:-Info@corecodetechno.in

MIT | Arts, Commerce & Science College

Alandi (D), Pune - 412105

Department Of Computer Application

Academic Year: 2018-19

Report On "Workshop on IOT using Python (Microsoft Certification)"

Objective of Activity:

Internet of Things is rapidly growing and most demanding Technology in Computer Field. The aim of this workshop was to make students understand about internet of things technology, & encourage them to make use of python technology.

Activity Details:


The workshop was organized from 22nd February to 26th February, 2019. As per the MOU signed with Corecode IT solutions Pvt Ltd., A Microsoft -AEP(Authorized Education Partner) Workshop was conducted. Various Programming techniques were taught using Python programming language. Finally, the participants were able to make programs by their own.

Outcome:

We received a sound response for this workshop. Total 30 students enrolled for the same. Students got the Microsoft Certification for the above said workshop and they were motivated to learn new technologies.

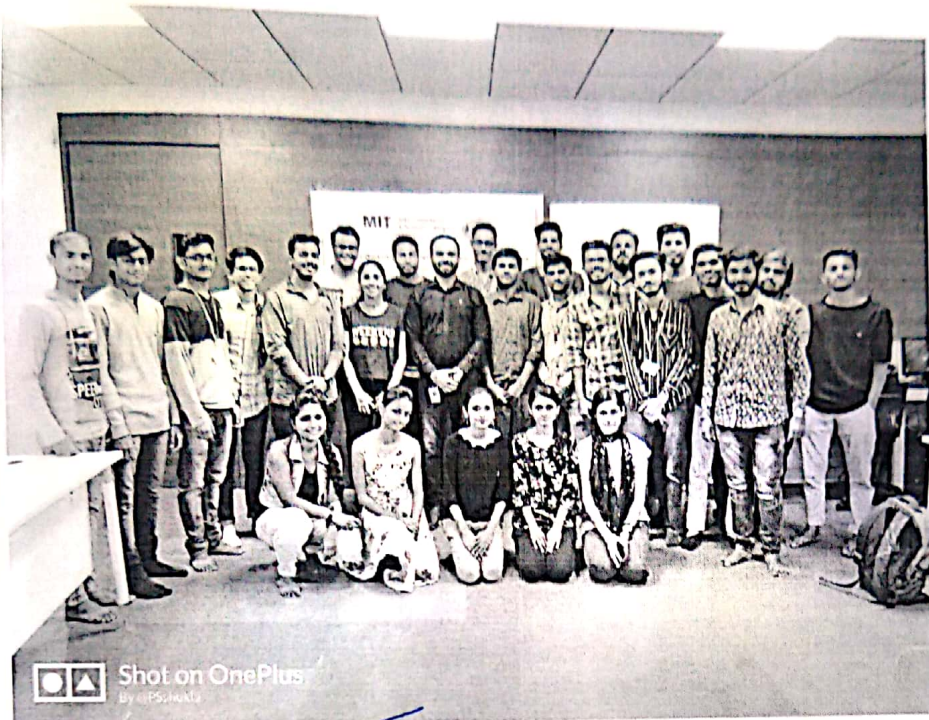


Prof. Akshada Kulkarni
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Principal





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