



M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
 UG - CSE, EEE & MECH Programs Accredited by NBA, New Delhi.
 (An ISO 9001:2015 Certified Institution)
 TRICHY – PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI – 620 007.
 Email: principalengg@miet.edu, contact@miet.edu
 Website: - www.miet.edu



Ph: 0431 – 2660 303

1.2.2 Number of Add on /Certificate programs offered during the last five years (10)

2019-2020		
Sl. No	Name of Add on /Certificate programs offered	Pg.No
1.	CS19201 - SALESFORCE ADX-201	
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Email: principafengg@miet.edu, contact@miet.edu
Website: - www.miet.edu

Ph: 0431 - 2660 303

Date: 23.09.2019

To

The Principal
M.I.E.T Engineering College,
Trichy - 620007

Respected Madam,

Sub: Permission to conduct the certificate program - Reg...

We have planned to conduct the certificate program for our final year and second year CSE students from 30-09-2019 to 05-10-2019.

Name of the Certificate Program	Course Coordinator
Salesforce ADX-201	Mr.M.K Mohamed Faizal., AP/CSE and Mr.P.Chirstopher., AP/CSE

So kindly give us permission to conduct the course and to utilize the class room and lab.

Thanking you

1. M.K.M. J.A.
2. P.Christopher
Course Coordinator

V. Channur
HoD/CSE

A. K. S.
Principal


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Ph: 0431 - 2690 303
25.09.2019

CIRCULAR

Sub: Certificate Program

It is planned to conduct the Certificate Program for the Final year and second year Computer Science and Engineering students.

The Certificate Programs are short term certificate courses which are designed and offered by our department for the benefit of our students. Certificate Program will be conducted at free of cost and based on the performance of the participated students, the merit certificate will be issued after the successful completion of the course.

Students those who are willing to attend the below mentioned course can enroll their names to the course coordinator.

Name of the Certificate Program	Course Coordinator
Salesforce ADX-201	Mr.M.K Mohamed Faizal., AP/CSE and Mr.P.Chirstopher., AP/CSE
Commencement of course from 30-9-2019 to 05-10-2019	
Time: 9.00 AM - 6.00 PM	

1. M.K.M.F.F.
2. P.Christopher
Course Coordinator

J.F.
IQAC Coordinator

V.Chandrasekhar
HoD/CSE

A.K.
Principal


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M.I.E.T ENGINEERING COLLEGE, TRICHY – 7.
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
Certificate Program (IV Year & II Year– VII Semester & III Semester)
Course Syllabus

Name of the course: Salesforce ADX-201

Course Code: CS19201

Course Coordinator: Mr.M.K Mohamed Faizal.,AP/CSE and Mr.P.Christopher., AP/CSE

Total Hours: 35

Academic Year: 2019-2020

Objective

- To build and increase sales productivity and reduce training costs.

UNIT I- SALESFORCE FUNDAMENTALS

7

Introduction to Salesforce- Overview of Salesforce- its Editions-Home Page Customization-User Management- Apps Creation-Core CRM objects Capabilities-Declarative Customizations Boundaries- Programmatic Customizations Use Cases.

UNIT II-FIELD TYPES AND SALESFORCE OBJECT

7

Field types overview-Standard field modification- Creation of auto-number- formula- roll-up summary- lookup & master-detail and checkbox fields-Creation of number- currency and percent fields

UNIT III- SALESFORCE WORK FLOW, SCHEMA BUILDER AND PROCESS BUILDER

7

Overview of visual workflow- schema builder and process builder- Creation of visual flow-Modification of the existing workflows-Creation of process-Field creation in the schema builder

UNIT IV –SALESFORCE USER PROFILE

7

Introduction of Profiles -Overview of standard profiles-Page layouts assigning-Settings.

UNIT V- SECURITY DATA MODEL

7

Restricting logins-Object access determination-Record access configuration-Creation of role hierarchy-Record access exceptions

Course Outcomes

The students will be able to

- Understand key principles in managing a sales team in today's business context.
- Analyze current issues and apply best practices in sales force management.

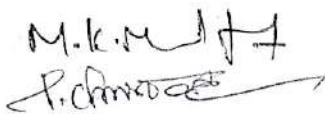

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- Gain key competencies in leading sales team to effectively manage key customer portfolios and seek new opportunities.

References

These are some of the links and books which can help students in increasing their knowledge base and clarification of the doubts.

- Beginning Sales force Developer Paperback –by Michael Wicherski.
- Salesforce CRM - The Definitive Admin Handbook: Build, configure, and customize Salesforce CRM and mobile solutions, 5th Edition Paperback – by Paul Goodey.
- Salesforce for Beginners: A step-by-step guide to creating, managing, and automating sales and marketing processes Paperback – Import, 29 May 2020by Sharif Shaalan.


M.K.M. H.
P. Chinnappa
Course Coordinator


IQAC Coordinator


HoD/CSE


Principal


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Willing Student list

CP1 Coordinator: Mr.M.K.Mohamed Faizal., AP/CSE and Mr. P.Christopher .,AP/CSE

CP2 Coordinator: Mrs. R.Deepa., AP/CSE and Mrs. G.Nalina Keerthana., ASP/CSE

Academic Year: 2019-2020

SL. NO	STUDENT NAME	<u>CP1</u> Salesforce-ADX 201	<u>CP2</u> Implementation of Data Structures Using Python programming
1.	Abdul Azecs. R		
2.	Ashok. A		
3.	Atchaya. A		
4.	Azhakesh Kumar. L		
5.	Bava Bakurudeen. S		
6.	Devika. R		
7.	Dhanushkodi. M		
8.	Dhatshanamoorthy. V		
9.	Faisal Haq. S		
10.	Haja Mohideen. M		
11.	Hariharasudhan. N		
12.	Haris. V		
13.	Ishwarya. S		
14.	Jaffar Sadhiq. K		
15.	Jenifer. T		


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SL. NO	STUDENT NAME	CP1 Salesforce-ADX 201	CP2 Implementation of Data Structures Using Python programming
16.	Kanimozhi. A		
17.	Karthickeyan. G		
18.	Madeshwaran. C		
19.	Manikandan. K		
20.	Mohamed Abdullah. M		
21.	Mohammed Ajiwath. N		
22.	Mohamed Fazil. Z		
23.	Mohamed Hanifa. K		
24.	Mohamedmusthafa. M	✓	
25.	Mohamed Najumudeen. A	✓	
26.	Mohamed Rafeeq. S		
27.	Mohamed Yahya		
28.	Nithya. S		
29.	Nivetha. R		
30.	Prasanth. K		
31.	Preethi. D		
32.	Prisila. J		
33.	Priyadharshini. G		✓
34.	Pushparani. S		
35.	Ramya. S		✓
36.	Ramya. SS		
37.	Roshan Shabiha. A		


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SL. NO	STUDENT NAME	<u>CP1</u> Salesforce-ADX 201	<u>CP2</u> Implementation of Data Structures Using Python programming
38.	Sahana. T		
39.	Sana Zaffira		
40.	Selvaprabha. R		
41.	Sheik Jabeer. S		
42.	Shrimathi. K		
43.	Siva. B		
44.	Sudha. P		
45.	Suhayla. M		
46.	Thamarai Selvi. B		
47.	Tharun Prakash. L		
48.	Vaishnow. J		
49.	Vanmathi. K		
50.	Vignesh. V		
51.	Vinitha. S		
52.	Aishwarya. S		
53.	Bharathraj. G		
54.	Fahim Ahamed. A		
55.	Hemalatha. S		
56.	Imran Khan. A		
57.	Monisha. V		
58.	Sibi. S		
59.	Sikkandar Thulkarnai. J		


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SL. NO	STUDENT NAME	CP1 Salesforce-ADX 201	CP2 Implementation of Data Structures Using Python programming
60.	Syed Muhammed Abbas. I		
61.	Vishva. V		
62.	Yugan. S		
63.	Abdullah.A. AF		✓
64.	Anil Ruth.V. V		✓
65.	Bavithra.S. S		✓
66.	Bharathi.B. B		✓
67.	Bharathy.M. M		✓
68.	Deepika.E. E		✓
69.	Dharshan.P. P		✓
70.	Divya.T. T		✓
71.	Durga.R. R		✓
72.	Faizur Rahman.A. A		✓
73.	Gobinath.M. M		✓
74.	Ilakiya.B. B		✓
75.	Jaiithoon Isma.U. U		✓
76.	Jefri Jerina.J. J		✓
77.	Jesela.N. N		✓
78.	Jesima Barveen.S. S		✓
79.	Jisnu. S		✓
80.	Kabilan.M. M		✓
81.	Karthikeyan. M		✓


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SL. NO	STUDENT NAME	<u>CPI</u> Salesforce-ADX 201	<u>CP2</u> Implementation of Data Structures Using Python programming
82.	Keerthiga. M		✓
83.	Kousalya. J		✓
84.	Krishnaraj. G		✓
85.	Kumanan. A		✓
86.	Lakshmi Priya. A		✓
87.	Mareeswari. G		✓
88.	Mohammed Ajmal.S. S		✓
89.	Mohamed Azman.R. R		✓
90.	Mohamed Fazil.B. B		✓
91.	Mohamedriyaskhan.S. S		✓
92.	Mohamed Riyaz.A. A		✓
93.	Mohamed Zifri. S		✓
94.	Mohammad Bawaz. J		✓
95.	Murugalatha. P		✓
96.	Nandhini. B		✓
97.	Nandhini. J		✓
98.	Nasreen. R		✓
99.	Patricburuno. A		✓
100.	Prasanaeswar. M		✓
101.	Praveen. M		✓
102.	Raashith Ahamed. S		✓
103.	Ramkumar. C		✓


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SL. NO	STUDENT NAME	<u>CPI</u> Salesforce-ADX 201	<u>CP2</u> Implementation of Data Structures Using Python programming
104.	Ramkumar. R		✓
105.	Ranjith. S		✓
106.	Rathinavel. P		✓
107.	Riyas Ahamed. A		✓
108.	Salman Baris. S		✓
109.	Samsath Begam. S		✓
110.	Saran. K		✓
111.	Sarthaj. S		✓
112.	Sasidharan. S		✓
113.	Selvakumar. S		✓
114.	Sheik Dawood. M		✓
115.	Sirajudeen. A		✓
116.	Sriramkumar. S		✓
117.	Steffi Monica. A		✓
118.	Sundharesan. R		✓
119.	Surya. M		✓
120.	Surya. S		✓
121.	Thoulathul Fahmeetha. F		✓
122.	Vasudevan. K		✓
123.	Venkatesh. M		✓
124.	Vignesh. G		✓
125.	Vijaya Kumar. J		✓


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SL. NO	STUDENT NAME	CP1 Salesforce-ADX 201	CP2 Implementation of Data Structures Using Python programming
126.	Vishnu. V		✓
127.	Yogeshwar. S		✓
128.	Bharathvaj. KS		✓
129.	Ganesh. R		✓
130.	Matthew. A		✓
131.	Parthiban. S		✓
132.	Thatchayeni. P		✓
133.	Ahamed Younus Khan. M	✓	
134.	Akilan. P	✓	
135.	Amrutam Sunil. S	✓	
136.	Anusiya Devi. S	✓	
137.	Aravindhan. R	✓	
138.	Arif Mohammed. M	✓	
139.	Aswathi. S	✓	
140.	Ayesha Shereen. A.K	✓	
141.	Daaneshwaran. R	✓	
142.	Farjana Fathima. S	✓	
143.	Gayathri. S	✓	
144.	Gomathi. K	✓	
145.	Hajara Bathool. A	✓	
146.	Hephzibah. P	✓	
147.	Ibrahim Umarkhan. T	✓	


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SL. NO	STUDENT NAME	CP1 Salesforce-ADX 201	CP2 Implementation of Data Structures Using Python programming
148.	Jayaprakash. S	✓	
149.	Jerophine Santhiya. S	✓	
150.	Kabil. R	✓	
151.	Karishma. R	✓	
152.	Kaviya. A	✓	
153.	Lanya Bhanu. T	✓	
154.	Lavanyaa. N	✓	
155.	Manikandan. S	✓	
156.	Meghasushmitha. J	✓	
157.	Mohamed Asik. M	✓	
158.	Mohamed Bilal. K	✓	
159.	Mohamed Munaf. M	✓	
160.	Mohamed Muzammil. M	✓	
161.	Mohammad Saifullah. A	✓	
162.	Mohammed Ansar. S	✓	
163.	Nichol Raj. R	✓	
164.	Nivetha. R	✓	
165.	Nivetha. S	✓	
166.	Nivethini. L	✓	
167.	Nizar Ahamed. H	✓	
168.	Noorul Vaisha Parveen. M	✓	
169.	Parthiban (11.03.1999). R	✓	


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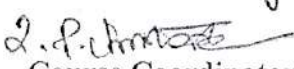
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SL. NO	STUDENT NAME	CPI Salesforce-ADX 201	CP2 Implementation of Data Structures Using Python programming
170.	Prasana. V	✓	
171.	Prem. R	✓	
172.	Priya. M	✓	
173.	Priyanka. A	✓	
174.	Raja. S	✓	
175.	Rajesh. L	✓	
176.	Ramela. R	✓	
177.	Ramya. G	✓	
178.	Ramya. V	✓	
179.	Revathi. M	✓	
180.	Riyaz Ahmed. H	✓	
181.	Robika. S	✓	
182.	Rumana Fervin. A	✓	
183.	Sabur Khan. S	✓	
184.	Sagunthala. R	✓	
185.	Sameer Khan. N	✓	
186.	Shabi Ahmed. S	✓	
187.	Shabira Begam. R	✓	
188.	Shajeetha Parveen. J	✓	
189.	Shameena Arasi. S	✓	
190.	Shyamsundar. T	✓	
191.	Sibiya Nilosha. A	✓	


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SL. NO	STUDENT NAME	CP1 Salesforce-ADX 201	CP2 Implementation of Data Structures Using Python programming
192.	Sivagami. K	✓	
193.	Soundharya. S	✓	
194.	Subashchandrabose. M	✓	
195.	Subash. N	✓	
196.	Subasree. M.V	✓	
197.	Sumathradevi. K	✓	
198.	Uma Shankar. G	✓	
199.	Ummal Bajria. A	✓	
200.	Vasanth. S	✓	
201.	Vimal Britto. J	✓	
202.	Yaminipriya. C.M	✓	
203.	Zaina Zuhaina. M	✓	
204.	Elangovan. S	✓	
205.	Roshini. A	✓	
206.	Sathish Kumar. S	✓	
207.	Subha. E	✓	

1. R. 
2. G. Nalina Keethana

2. P. 
Course Coordinator

V. 
HoD/CSE


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Certificate Program (IV Year & II Year- VII Semester & III Semester)

Course Delivery

Name of the Course: Salesforce ADX-201

Course Code: CS19201

Course Coordinator: Mr.M.K Mohamed Faizal., AP/CSE and Mr.P.Christopher., AP/CSE

Total Hours: 35

Academic Year: 2019-2020

Sl.No	Topics to be Covered	Hours	Date of Delivery
1.	Introduction to Salesforce	1	30-9-2019
2.	Overview of Salesforce	1	
3.	Home Page Customization	1	
4.	User Management- Apps Creation	1	
5.	Core CRM Objects Capabilities	2	
6.	Declarative Customizations Boundaries	1	
7.	Programmatic Customizations Use Cases	1	
8.	Field Types Overview	1	01-10-2019
9.	Standard Field Modification	1	
10.	Creation of Auto-Number	1	
11.	Formula	1	
12.	Roll-Up Summary	1	
13.	Lookup & Master	1	
14.	Detail And Checkbox Fields	1	
15.	Creation of number	1	03-10-2019
16.	Currency and Percent Fields	1	
17.	Overview of Visual Workflow	1	


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Sl.No	Topics to be Covered	Hours	Date of Delivery
18.	Schema Builder And Process Builder	2	03-10-2019.
19.	Creation of Visual Flow	1	
20.	Modification of The Existing Workflows	1	
21.	Creation of process	1	
22.	Field Creation in the Schema Builder	1	
23.	Introduction of Profiles	2	04-10-2019
24.	Overview of Standard Profiles	1	
25.	Page Layouts Assigning	1	
26.	Settings	1	
27.	Restricting Logins	1	
28.	Object Access Determination	1	05-10-2019
29.	Record Access Configuration	1	
30.	Creation of Role Hierarchy	2	
31.	Record Access Exceptions	1	
Total Hrs		35 Hrs	
Revision		2	05-10-2019
Test		1	05-10-2019

M. K. Reddy
P. Ananta
Course Coordinator

V. Channur
HoD/CSE

A. H.
Principal

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Resource Person Details

Title of the program	Salesforce ADX-201
Course Code	CS19201
Duration and timing of the program	35 Hrs, 9:00 AM to 6.00 PM
Name of the resource person	Mr.P.Chirstoper., AP/CSE
Photo of the resource person	
Email address	christopher.p@miet.edu
Contact number	9894825423
Designation	Assistant Professor
Educational qualification	<ul style="list-style-type: none">Completed B.Tech. Information Technology from Kings College of Engineering in the year 2006.Completed M.E., Computer Science and Engineering from M.I.E.T Engineering College in the year 2013.Completed MBA from Bharathidasan University in the year 2010.
Experience	<ul style="list-style-type: none">Teaching Experience – 11 Years.


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Resource Person Details

Title of the program	Salesforce ADX-201
Course Code	CS19201
Duration and timing of the program	35 Hrs, 9:00 AM to 6:00 PM
Name of the resource person	Mr.M..K Mohamed Faizal
Photo of the resource person	
Email address	mohamedfaizal.mk@miet.edu
Contact number	9150100633
Designation	Assistant Professor
Educational qualification	<ul style="list-style-type: none">Completed B.Tech., Information Technology from Sastra University in the year 2008.Completed M.E., Computer Science and Engineering from M.I.E.T Engineering College in the year 2013.
Experience	<ul style="list-style-type: none">Teaching Experience - 10 Years.


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Certificate Course (IV Year & II Year-VII Semester& III Semester) Attendance Sheet

Name of the course: Salesforce-ADX 201

Course code: CS19201

Course coordinator: Mr.M.K.Mohamed Faizal., AP/CSE and Mr. P.Christopher .,AP/CSE

Academic Year: 2019-2020

SL. NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1.	E1165001	Ahamed Younus Khan. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2.	E1165002	Akilan. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3.	E1165004	Amrutam Sunil. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4.	E1165007	Anusiya Devi. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5.	E1165008	Aravindhana. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6.	E1165009	Arif Mohammed. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7.	E1165010	Aswathi. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8.	E1165011	Ayesha Shereen. A.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9.	E1165012	Daaneshwaran. R	a	a	a	a	a	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/
10.	E1165014	Farjana Fathima. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11.	E1165015	Gayathri. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/


PRINCIPAL
M.I.E.T. ENGINEERING COLLEGE
GUNDUR, TIRUCHIRAPPALLI-620 007.

SL. NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
12.	E1165016	Gomathi. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13.	E1165017	Hajara Bathool. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14.	E1165018	Hephzibah. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15.	E1165019	Ibrahim Umarkhan. T	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16.	E1165020	Jayaprakash. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17.	E1165021	Jerophine Santhiya. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18.	E1165022	Kabil. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19.	E1165024	Karishma. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20.	E1165026	Kaviya. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21.	E1165027	Lamya Bhanu. T	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22.	E1165028	Lavanyaa. N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23.	E1165029	Manikandan. S	a	a	a	a	a	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/
24.	E1165030	Meghasushmitha. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
25.	E1165031	Mohamed Asik. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
26.	E1165032	Mohamed Bilal. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
27.	E1165034	Mohamed Munaf. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
28.	E1165035	Mohamed Muzammil. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

SL. NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
29.	E1165036	Mohammad Saifullah. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
30.	E1165037	Mohammed Ansar. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
31.	E1165038	Nichol Raj. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
32.	E1165040	Nivetha. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
33.	E1165041	Nivetha. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
34.	E1165042	Nivethini. L	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
35.	E1165043	Nizar Ahamed. H	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
36.	E1165044	Noorul Vaisha Parveen. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
37.	E1165046	Parthiban (11.03.1999). R	a	a	a	a	a	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/
38.	E1165047	Prasana. V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
39.	E1165048	Prem. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
40.	E1165049	Priya. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
41.	E1165050	Priyanka. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
42.	E1165051	Raja. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
43.	E1165052	Rajesh. L	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
44.	E1165053	Ramela. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

SL. NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
45.	E1165054	Ramya. G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
46.	E1165055	Ramya. V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
47.	E1165057	Revathi. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
48.	E1165058	Riyaz Ahmed. H	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
49.	E1165059	Robika. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
50.	E1165060	Rumana Fervin. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
51.	E1165061	Sabur Khan. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
52.	E1165062	Sagunthala. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
53.	E1165063	Sameer Khan. N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
54.	E1165064	Shabi Ahmed. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
55.	E1165065	Shabira Begam. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
56.	E1165066	Shajeetha Parveen. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
57.	E1165067	Shameena Arasi. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
58.	E1165068	Shyamsundar. T	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
59.	E1165069	Sibiya Nilosha. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
60.	E1165070	Sivagami. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
61.	E1165071	Soundharya. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
62.	E1165072	Subashchandrabose.	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

SL. NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
		M																				
63.	E1165073	Subash. N	a	a	a	a	a	a	a	a	/	/	/	/	/	/	/	/	/	/	/	/
64.	E1165074	Subasree. M.V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
65.	E1165075	Sumathradevi. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
66.	E1165076	Uma Shankar. G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
67.	E1165077	Ummal Bajria. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
68.	E1165078	Vasanth. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
69.	E1165080	Vimal Britto. J	/	/	/	/	/	/	/	/	a	a	a	a	a	a	a	/	/	/	/	/
70.	E1165081	Yaminipriya. C.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
71.	E1165082	Zaina Zuhaina. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
72.	E2175083	Elangovan. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
73.	E2175084	Roshini. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
74.	E2175085	Sathish Kumar. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
75.	E2175086	Subha. E	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
76.	E1185026	Mohamedmusthafa. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
77.	E1185027	Mohamed Najumudeen. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

SL.N O	ROLL NO	STUDENT NAME	21	22	23	24	24	25	26	27	28	29	30	31	32	33	34	35	R & T
1.	E1165001	Ahamed Younus Khan. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2.	E1165002	Akilan. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3.	E1165004	Amrutam Sunil. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4.	E1165007	Anusiya Devi. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5.	E1165008	Aravindhana. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6.	E1165009	Arif Mohammed. M	/	/	/	/	/	a	a	a	a	a	a	a	/	/	/	/	/
7.	E1165010	Aswathi. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8.	E1165011	Ayesha Shereen. A.K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9.	E1165012	Daaneshwaran. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10.	E1165014	Farjana Fathima. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11.	E1165015	Gayathri. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12.	E1165016	Gomathi. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13.	E1165017	Hajara Bathool. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14.	E1165018	Hephzibah. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15.	E1165019	Ibrahim Umarchan. T	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16.	E1165020	Jayaprakash. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17.	E1165021	Jerophine Santhiya. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

SL.N O	ROLL NO	STUDENT NAME	21	22	23	24	24	25	26	27	28	29	30	31	32	33	34	35	R & T
18.	E1165022	Kabil. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19.	E1165024	Karishma. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20.	E1165026	Kaviya. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21.	E1165027	Lanya Bhanu. T	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22.	E1165028	Lavanyaa. N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23.	E1165029	Manikandan. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
24.	E1165030	Meghasushmitha. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
25.	E1165031	Mohamed Asik. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
26.	E1165032	Mohamed Bilal. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
27.	E1165034	Mohamed Munaf. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
28.	E1165035	Mohamed Muzammil. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
29.	E1165036	Mohammad Saifullah. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
30.	E1165037	Mohammed Ansar. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
31.	E1165038	Nichol Raj. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
32.	E1165040	Nivetha. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
33.	E1165041	Nivetha. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
34.	E1165042	Nivethini. L	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

SL.N O	ROLL NO	STUDENT NAME	21	22	23	24	24	25	26	27	28	29	30	31	32	33	34	35	R & T
35.	E1165043	Nizar Ahamed. H	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
36.	E1165044	Noorul Vaisha Parveen. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
37.	E1165046	Parthiban (11.03.1999). R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
38.	E1165047	Prasana. V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
39.	E1165048	Prem. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
40.	E1165049	Priya. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
41.	E1165050	Priyanka. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
42.	E1165051	Raja. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
43.	E1165052	Rajesh. L	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
44.	E1165053	Ramela. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
45.	E1165054	Ramya. G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
46.	E1165055	Ramya. V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
47.	E1165057	Revathi. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
48.	E1165058	Riyaz Ahmed. H	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
49.	E1165059	Robika. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
50.	E1165060	Rumana Fervin. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
51.	E1165061	Sabur Khan. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

SL.N O	ROLL NO	STUDENT NAME	21	22	23	24	24	25	26	27	28	29	30	31	32	33	34	35	R & T
52.	E1165062	Sagunthala. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
53.	E1165063	Sameer Khan. N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
54.	E1165064	Shabi Ahmed. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
55.	E1165065	Shabira Begam. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
56.	E1165066	Shajeetha Parveen. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
57.	E1165067	Shameena Arasi. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
58.	E1165068	Shyamsundar. T	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
59.	E1165069	Sibiya Nilosha. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
60.	E1165070	Sivagami. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
61.	E1165071	Soundharya. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
62.	E1165072	Subashehandrabose. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
63.	E1165073	Subash. N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
64.	E1165074	Subasree. M.V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
65.	E1165075	Sumathradevi. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
66.	E1165076	Uma Shankar. G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
67.	E1165077	Ummal Bajria. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
68.	E1165078	Vasanth. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
69.	E1165080	Vimal Britto. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

SL.N O	ROLL NO	STUDENT NAME	21	22	23	24	24	25	26	27	28	29	30	31	32	33	34	35	R & T
70.	E1165081	Yaminipriya. C.M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
71.	E1165082	Zaina Zuhaina. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
72.	E2175083	Elangovan. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
73.	E2175084	Roshini. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
74.	E2175085	Sathish Kumar. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
75.	E2175086	Subha. E	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
76.	E1185026	Mohamedmusthafa. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
77.	E1185027	Mohamed Najumudeen. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

1. M.K. Muthu
2. P. Chandra
Course Coordinator

V. Chandu
HoD/CSE

V. Chandu
Principal



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Certificate Program Assessment Test

Name of the course: Salesforce ADX-201
Course Code: CS19201
Academic Year: 2019-2020

Date: 5-10-19
Time: 1:00 hr

Total Marks: 25

Part A (1 mark *15 =15 marks)

1.

Sales and Distribution Management majorly focuses on the _____ aspect of an organization.

- a. Selling
- b. Purchasing
- c. Production
- d. Supply chain

2.

Sales management is a part of _____ management.

- a. Marketing Management
- b. Human Resources Management
- c. Both Marketing and Human Resources Management
- d. None of the above

3.

_____ involves dealing with customers in the field and making efforts towards convincing them to purchase the products manufactured by the company.

- a. Face to Face bargaining
- b. Personal Selling
- c. Viral Marketing
- d. Buzz selling


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4.

Identify the missing link in the consumer decision making process;

Problem/need recognition, Information search, _____, Purchase decision and Post-purchase behavior.

- a. Closing and Finalizing
- b. Generating more information
- c. Evaluation of alternatives
- d. None of the above

5.

Test marketing is used for those products which have no historical sales figures.

- a. True
- b. False

6.

The objective behind motivating sales force is to:

- a. Increase the sales of the products
- b. To capture more territories
- c. Only b
- d. Both a and b

7.

_____ offer a wide assortment of products at substantial price cuts.

- a. Discount houses and specialty stores
- b. Factory outlets and Discount houses
- c. Specialty stores
- d. None of the above

8.

_____ is about encouraging people to apply for the jobs of sales associates in an organization.

- a. Selection of sales associates
- b. Recruitment for sales associates
- c. Directing for sales associates
- d. Both a and b


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9.

The aspect which deals with deciding the salary and commission for sales agent falls under the broad umbrella of:

- a. Compensation
- b. Training
- c. Motivation
- d. All of the above

10.

When products are stocked in as many as outlets as possible, it is known as:

- a. Exclusive Distribution
- b. Intensive Distribution
- c. Selective Distribution
- d. None of the above

11.

Which of the following falls within the purview of the duties and responsibilities of a sales manager?

- a. Territory management
- b. Quota formulation
- c. Sales forecasting
- d. All of the above

12.

Sales, _____, and expenses that are the major determinants of net profit are ultimately affected by the performance of sales personnel.

- a. Net margin
- b. Quotas
- c. Gross margin
- d. Revenues

13.

Salesmanship is a _____ effort that motivates potential buyers to decide in favor of the seller's product or service.

- a. Seller-initiated
- b. Buyer-initiated
- c. Marketing department-initiated
- d. Organization-initiated


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14.

Frontline salespeople are _____.

- a. Order creators
- b. Order takers
- c. Order getters
- d. All of the above

15.

The planning functions of a sales executive include dealing with all of the below except one. Identify which of the following is not dealt with by a sales executive as a planning function.

- a. Communicating and coordinating with other marketing executives
- b. Sales program
- c. Sales organization
- d. Control

Part B (10 marks *1=10 marks)

16. Describe Schema Builder.

1. M. K. M. H
2. P. Chinnappa
Course Coordinator

V. Chinnappa
HoD/CSE

Principal

A. S. S.
- PRINCIPAL
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One Page Report

Name of the course: Salesforce ADX-201

Course Code: CS19201

Course Coordinator: Mr.M.K.Mohamed Faizal., AP/CSE and Mr. P.Christopher .,AP/CSE

Total Hours: 35

Academic Year: 2019-2020

I hereby affirm that the entire course contents listed in the course syllabus of the certificate program "Salesforce ADX-201" has educated to the students as the part of the prescribed co - curricular activities through certificate program.

They have been given the basic concepts of the topics mentioned and students clearly understood the fundamentals of Salesforce.

I confirmed that the certificate program titled as "Salesforce ADX-201" has been conducted in the beginning of the semester and course delivery along with attendance of the students was recorded.

I confirmed that all the students were actively attended this certificate program and performed well throughout the program and eligible students received the certificate.

M.K. Mohamed Faizal
P. Christopher
Course Coordinator

V. Chandra
HoD/CSE

P. S. Srinivasan
Principal

P. S. Srinivasan
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M.I.E.T. ENGINEERING COLLEGE
IN ASSOCIATION WITH ICT ACADEMY OF TAMILNADU



ICTACADEMY

Course Completion Certificate

This is to Certify that Mr/Ms: S. Amrutam Sunil
of IV yr CSE has Completed the Course on
SALESFORCE - ADX - 201 from 30.9.19 to 5.10.19

M.K. Muthu
Course Coordinator

V. Chandrasekhar
HoD

[Signature]
Principal

[Signature]
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IN ASSOCIATION WITH ICT ACADEMY OF TAMILNADU



ICTACADEMY

Course Completion Certificate

This is to Certify that M^r/Ms. T. Lanya Banu
of IV yr CSE has Completed the Course on
SALESFORCE ADX - 201 from 30.9.19 to 5.10.19

M.K. Muthu
Course Coordinator

V. Chandra
HoD

[Signature]
Principal

[Signature]
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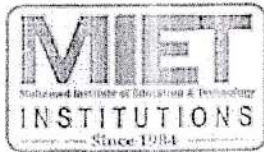
This is to Certify that Mr/Ms. M. Mohamed Munaf
of IV yr CSE has Completed the Course on
SALESFORCE ADX - 201 from 30-9-19 to 5.10.19

M.K. Muthu
Course Coordinator

V. Chandrasekhar
HoD

A. Raj
Principal

A. Raj
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This is to Certify that Mr/Ms. L. Nivethini

of IV yr CSE has Completed the Course on
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M.K. Muthu
Course Coordinator

V. Chandrasekhar
HoD

A. S. Jeyaraj
Principal

A. S. Jeyaraj
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This is to Certify that Mr/Ms. A. Mohamed Najumudeen
of II yr CSE has Completed the Course on
SALESFORCE ADX - 201 from 30.9.19 to 5.10.19

M.K. Muthiah
Course Coordinator

V. Chandrasekhar
HoD

A. Raju
Principal

A. Raju
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Website: - www.miet.edu

Ph: 0431 - 2660 303

Date: 16.12.2019

To

The Principal
M.I.E.T Engineering College,
Trichy - 620007

Respected Madam,

Sub: Permission to conduct the certificate program - Reg...

We have planned to conduct the certificate program for our third year and second year CSE students from 3.1.2020 to 31.1.2020. (3.1.20, 4.1.20, 7.1.20, 8.1.20, 9.1.20, 10.1.20, 11.1.20, 13.1.20, 20.1.20, 21.1.20, 25.1.20, 27.1.20, 28.1.20, 29.1.20, 30.1.20, 31.1.20) after class hours from 5.00 pm to 7.00 pm.

Name of the Certificate Program	Course Coordinator
Implementation of Data Structures Using Python programming	Mrs. R.Deepa., AP/CSE and Mrs. G.Nalina Keerthana., ASP/CSE

So kindly give us permission to conduct the course and to utilize the class room and lab.

Thanking you

1. R. Deepa
2. G. Nalina Keerthana
Course Coordinator

V. Channur
HoD/CSE

A. L. S.
Principal

A. L. S.
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Ph: 0431 - 2660 303

18.12.2019

CIRCULAR

Sub: Certificate Program

It is planned to conduct the Certificate Program for the third year and second year Computer Science and Engineering students.

The Certificate Programs are short term certificate courses which are designed and offered by our department for the benefit of our students. Certificate Program will be conducted at free of cost and based on the performance of the participated students, the merit certificate will be issued after the successful completion of the course.

Students those who are willing to attend the below mentioned course can enroll their names to the course coordinator.

Name of the Certificate Program	Course Coordinator
Implementation of Data Structures Using Python programming	Mrs. R.Deepa., AP/CSE and Mrs. G.Nalina Keerthana., ASP/CSE
Commencement of course from 3.1.2020 to 31.1.2020 (3.1.20, 4.1.20, 7.1.20, 8.1.20, 9.1.20, 10.1.20, 11.1.20, 13.1.20, 20.1.20, 21.1.20, 25.1.20, 27.1.20, 28.1.20, 29.1.20, 30.1.20, 31.1.20) Time: 5.00 PM - 7.00 PM	

1. R. A. [Signature]

2. G. Nalina Keerthana [Signature]
Course Coordinator

IQAC Coordinator

V. [Signature]
HoD/CSE

A. [Signature]
Principal

[Signature]
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M.I.E.T ENGINEERING COLLEGE, TRICHY – 7.
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
Certificate Program (III Year & II Year– VI Semester & IV Semester)
Course Syllabus

Name of the course: Implementation of Data Structures Using Python Programming

Course Code: CS19202

Course Coordinator: Mrs.R.Deepa., AP /CSE & Mrs.G.Nalina Keerthana., ASP /CSE

Total Hours: 30

Academic Year: 2019-2020

Objective

- To introduce Python programming for implementing Data Structures concepts.

UNIT I – INTRODUCTION

5

Introduction to programming- algorithms and data structures - variables- operations- control flow – assignments- conditionals- loops- functions- Nested functions

UNIT II–LISTS & TUPLES

6

Python: types-expressions- strings- lists- tuples- mutable and immutable values- List operations: slices – Dictionaries- Passing functions as arguments- higher order functions on lists- map- list comprehension

UNIT III – SORTING

6

Basic algorithmic analysis- asymptotic complexity- Arrays vs lists- Merge sort- Quick sort- Binary search- Elementary inductive sorting- selection and insertion sort- In-place sorting

UNIT IV –DATA STRUCTURES

6

Scope in Python- local- global- nonlocal name- Abstract data types- Classes and objects in Python- Data structures- stack- queue- Linked lists- Find- insert- delete.

UNIT V –TREES AND BACKTRACKING PROBLEMS

7

Binary search trees- Find- insert- delete- Height balanced binary search trees. Backtracking: N Queens- recording all solutions.

Course Outcomes

The students will be able to

- Analyze algorithms and to summarize searching and sorting techniques.
- Implement stack, queue and linked list operations in python.
- Implement the concepts of tree in python.


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References

- Problem Solving in Data Structures & Algorithms Using Python: Programming Interview Guide Paperback – Import, 14 December 2016 by Hemant Jain
- Data Structure and Algorithmic Thinking with Python Paperback – 1 January 2015 by Narasimha Karumanchi

R. [Signature]
G. Nalina Keerthana [Signature]
Course Coordinator IQAC Coordinator

V. Chandra [Signature]
HoD/CSE

[Signature]
Principal

[Signature]
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Certificate Program (III Year & II Year-VI Semester & IV Semester)

Course Delivery

Name of the Course: Implementation of Data Structures Using Python Programming

Course Code: CS19202

Course Coordinator: Mrs.R.Deepa., AP /CSE & Mrs.G.Nalina Keerthana., ASP /CSE

Total Hours: 30

Academic Year: 2019-2020

Sl.No	Topics to be Covered	Hours	Date of Delivery
1.	Introduction to programming	1	3.1.2020
2.	Algorithms and data structures, Variables	1	
3.	Operations, Control flow	1	4.1.2020
4.	Assignments, Conditionals, Loops	1	
5.	Functions, Nested functions	1	7.1.2020
6.	Python: Types-Expressions	1	
7.	Strings	1	8.1.2020
8.	Lists	1	
9.	Tuples, Mutable and immutable values	1	9.1.2020
10.	List operations: slices	1	
11.	Dictionaries, Passing functions as arguments	1	10.1.2020
12.	Higher order functions on lists, Map- list comprehension	1	
13.	Basic algorithmic analysis, Asymptotic complexity	1	11.1.2020
14.	Arrays vs lists	1	
15.	Merge sort	1	13.1.2020
16.	Quick sort	1	
17.	Binary search	1	20.1.2020


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Sl.No	Topics to be Covered	Hours	Date of Delivery
18.	Elementary inductive sorting	1	20.1.2020
19.	Selection and insertion sort	1	21.1.2020
20.	In-place sorting	1	
21.	Scope in python	1	25.1.2020
22.	Local- global- nonlocal name	1	
23.	Abstract data types, Classes and objects in python	1	27.1.2020
24.	Data structures- Stack	1	
25.	Queue	1	28.1.2020
26.	Linked lists- Find- insert- delete	1	
27.	Binary search trees- Find- insert- delete	1	29.1.2020
28.	Height balanced binary search trees	1	
29.	Backtracking: N Queens	1	30.1.2020
30.	Recording All Solutions	1	
Total Hrs			30 Hrs
Revision		1	31.1.2020
Test		1	31.1.2020

1. R. Dya

2. G. Abilina Keethana
Course Coordinator

V. Channu
HoD/CSE

A. S. S.
Principal

A. S. S.
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Resource Person Details

Title of the program	Implementation of Data Structures Using Python Programming
Course Code	CS19202
Duration and timing of the program	30 Hrs, 5:00 PM to 7:00 PM
Name of the resource person	Mrs.R.Deepa
Photo of the resource person	
Email address	deepa.r@miet.edu
Contact number	9843135090
Designation	Assistant Professor
Educational qualification	<ul style="list-style-type: none">Completed B.E., Computer Science and Engineering from MAM College of Engineering in the year 2006.Completed M.E., Computer Science and Engineering from M.I.E.T Engineering College in the year 2013.
Experience	<ul style="list-style-type: none">Teaching Experience - 4 Years.


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Resource Person Details

Title of the program	Implementation of Data Structures Using Python Programming
Course Code	CS19202
Duration and timing of the program	30 Hrs, 5:00 PM to 7:00 PM
Name of the resource person	Mrs.G.Nalina Keerthana
Photo of the resource person	
Email address	nalinakeerthana.g@miet.edu
Contact number	9944917909
Designation	Assistant Professor
Educational qualification	<ul style="list-style-type: none">Completed B.E., Information Technology from JJ College of Engineering and Technology in the year 2004.Completed M.E., Computer Science and Engineering from M.I.E.T Engineering College in the year 2013.
Experience	<ul style="list-style-type: none">Teaching Experience - 15 Years.


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Certificate Course (III Year & II Year - VI Semester & IV Semester) Attendance Sheet

Name of the course: Implementation of Data Structures using Python Programming
Course code: CS19202
Course coordinator: Mr.R.Deepa., AP/CSE and Mrs. G.Nalina Keerthana .,ASP/CSE
Academic Year: 2019-2020

SL. NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1.	E1175001	Abdullah.A. AF	/	/	/	/	/	/	/	/	/	/	/	/	aa	/	/	/	/	/	/	/
2.	E1175002	Anil Ruth.V. V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3.	E1175003	Bavithra.S. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4.	E1175004	Bharathi.B. B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5.	E1175005	Bharathy.M. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6.	E1175006	Deepika.E. E	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	aa	aa
7.	E1175007	Dharshan.P. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8.	E1175009	Divya.T. T	/	/	/	/	/	/	/	/	/	aa	aa	/	aa	/	/	/	/	/	/	/
9.	E1175010	Durga.R. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10.	E1175011	Faizur Rahman.A. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11.	E1175012	Gobinath.M. M	/	/	/	/	/	/	aa	aa	/	/	/	/	/	/	/	/	/	/	/	/
12.	E1175014	Ilakiya.B. B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

SL. NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
13.	E1175015	Jaithoon Isma.U. U	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14.	E1175016	Jefri Jerina.J. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15.	E1175017	Jesela.N. N	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16.	E1175018	Jesima Barveen.S. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17.	E1175021	Jisnu. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18.	E1175022	Kabilan.M. M	/	/	/	/	/	/	/	/	aa	/	/	/	/	/	/	/	/	/	/	/
19.	E1175023	Karthikeyan. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20.	E1175024	Keerthiga. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	aa	aa	/	/	/
21.	E1175025	Kousalya. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22.	E1175026	Krishnaraj. G	/	/	/	/	/	/	/	/	/	/	/	/	/	aa	aa	/	/	/	/	/
23.	E1175027	Kumanan. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	aa	aa	/
24.	E1175028	Lakshmi Priya. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
25.	E1175029	Mareeswari. G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
26.	E1175030	Mohammed Ajmal.S. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
27.	E1175031	Mohamed Azman.R. R	/	/	/	/	aa	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
28.	E1175032	Mohamed Fazil.B. B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
29.	E1175033	Mohamedriyaskhan.S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

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SL. NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
		. S																				
30.	E1175034	Mohamed Riyaz.A. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	aa	/	/	/	/	/
31.	E1175035	Mohamed Zifri. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
32.	E1175036	Mohammad Bawaz. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
33.	E1175038	Murugalatha. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
34.	E1175039	Nandhini. B	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
35.	E1175040	Nandhini. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
36.	E1175041	Nasreen. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
37.	E1175042	Patricburuno. A	/	/	/	/	/	/	/	/	aa	/	/	/	/	/	/	/	/	/	/	/
38.	E1175043	Prasanaeswar. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
39.	E1175044	Praveen. M	/	/	/	/	aa	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
40.	E1175046	Raashith Ahamed. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
41.	E1175048	Ramkumar. C	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
42.	E1175049	Ramkumar. R	/	/	/	/	/	/	/	/	/	/	aa	/	/	/	/	/	/	/	/	/
43.	E1175052	Ranjith. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	aa	/
44.	E1175053	Rathinavel. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
45.	E1175054	Riyas Ahamed. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
46.	E1175055	Salman Baris. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

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SL. NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
47.	E1175056	Samsath Begam. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
48.	E1175057	Saran. K	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
49.	E1175059	Sarthaj. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
50.	E1175060	Sasidharan. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	aa	/	/	/
51.	E1175061	Selvakumar. S	/	/	/	/	aa	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
52.	E1175062	Sheik Dawood. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
53.	E1175063	Sirajudeen. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
54.	E1175064	Sriramkumar. S	/	/	aa	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
55.	E1175065	Steffi Monica. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
56.	E1175066	Sundharesan. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
57.	E1175067	Surya. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
58.	E1175068	Surya. S	/	/	/	/	/	/	/	/	/	aa	/	/	/	/	/	/	/	/	/	/
59.	E1175070	Thoulathul Fahmeetha. F	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
60.	E1175071	Vasudevan. K	/	/	/	/	/	/	aa	/	/	/	/	/	/	/	/	/	/	/	/	/
61.	E1175072	Venkatesh. M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
62.	E1175073	Vignesh. G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
63.	E1175074	Vijaya Kumar. J	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

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SL. NO	ROLL NO	STUDENT NAME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
64.	E1175075	Vishnu. V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
65.	E1175077	Yogeshwar. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
66.	E2185080	Bharathvaj. KS	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
67.	E2185081	Ganesh. R	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
68.	E2185083	Matthew. A	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
69.	E2185084	Parthiban. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	a	a	/	/
70.	E2185085	Thatchayeni. P	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
71.	E1185035	Priyadharshini. G	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
72.	E1185037	Ramya. S	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/


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SL.NO	ROLL NO	STUDENT NAME	21	22	23	24	24	25	26	27	28	29	30	R & T
1.	E1175001	Abdullah.A. AF	/	/	/	/	/	/	/	/	/	/	/	/
2.	E1175002	Anil Ruth.V. V	/	/	/	/	/	/	/	/	/	/	/	/
3.	E1175003	Bavithra.S. S	/	/	/	/	/	/	/	/	/	/	/	/
4.	E1175004	Bharathi.B. B	/	/	/	/	/	/	/	/	/	/	/	/
5.	E1175005	Bharathy.M. M	/	/	/	/	/	/	/	/	/	/	/	/
6.	E1175006	Deepika.E. E	/	/	aaa	/	/	/	/	/	/	/	/	/
7.	E1175007	Dharshan.P. P	/	/	/	/	/	/	/	/	/	/	/	/
8.	E1175009	Divya.T. T	/	/	/	/	/	/	/	/	/	/	/	/
9.	E1175010	Durga.R. R	/	/	/	/	/	/	/	/	/	/	/	/
10.	E1175011	Faizur Rahman.A. A	/	/	/	/	/	/	/	/	/	/	/	/
11.	E1175012	Gobinath.M. M	/	/	/	/	/	/	/	/	/	/	/	/
12.	E1175014	Ilakiya.B. B	/	/	/	/	/	/	/	/	/	/	/	/
13.	E1175015	Jaithoon Isma.U. U	/	/	/	/	/	/	/	/	/	/	/	/
14.	E1175016	Jefri Jerina.J. J	/	/	/	/	/	/	/	/	/	/	/	/
15.	E1175017	Jesela.N. N	/	/	/	/	/	/	/	/	/	/	/	/


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SL.NO	ROLL NO	STUDENT NAME	21	22	23	24	24	25	26	27	28	29	30	R & T
16.	E1175018	Jesima Barveen.S. S	/	/	/	/	/	/	/	/	/	/	/	/
17.	E1175021	Jisnu. S	/	/	/	/	/	/	/	/	/	/	/	/
18.	E1175022	Kabilan.M. M	/	/	/	/	/	/	/	/	/	/	/	/
19.	E1175023	Karthikeyan. M	a	a	/	/	/	/	/	/	/	/	/	/
20.	E1175024	Keerthiga. M	/	/	/	/	/	/	/	/	/	/	/	/
21.	E1175025	Kousalya. J	/	/	/	/	/	/	/	/	/	/	/	/
22.	E1175026	Krishnaraj. G	/	/	/	/	/	/	/	a	a	/	/	/
23.	E1175027	Kumanan. A	/	/	/	/	/	/	/	/	/	/	/	/
24.	E1175028	Lakshmi Priya. A	/	/	/	/	/	/	/	/	/	/	/	/
25.	E1175029	Mareeswari. G	/	/	/	/	/	/	/	/	/	/	/	/
26.	E1175030	Mohammed Ajmal.S. S	/	/	/	/	/	/	/	/	/	/	/	/
27.	E1175031	Mohamed Azman.R. R	/	/	/	/	/	/	/	/	/	/	/	/
28.	E1175032	Mohamed Fazil.B. B	/	/	/	/	/	/	/	/	/	/	/	/
29.	E1175033	Mohamedriyaskhan.S. S	/	/	/	/	/	/	/	/	/	/	/	/
30.	E1175034	Mohamed Riyaz.A. A	/	/	/	/	/	/	/	a	a	/	/	/
31.	E1175035	Mohamed Zifri. S	/	/	/	/	/	/	/	/	/	/	/	/
32.	E1175036	Mohammad Bawaz. J	/	/	/	/	/	/	/	/	/	/	/	/

SL.NO	ROLL NO	STUDENT NAME	21	22	23	24	24	25	26	27	28	29	30	R & T
33.	E1175038	Murugalatha. P	/	/	/	/	/	/	/	/	/	/	/	/
34.	E1175039	Nandhini. B	/	/	/	/	/	/	/	/	/	/	/	/
35.	E1175040	Nandhini. J	/	/	/	/	/	/	/	/	/	/	/	/
36.	E1175041	Nasreen. R	/	/	/	/	/	/	/	/	/	/	/	/
37.	E1175042	Patricburuno. A	aa		/	/	/	/	/	/	/	/	/	/
38.	E1175043	Prasanaeswar. M	/	/	/	/	/	/	/	/	/	/	/	/
39.	E1175044	Praveen. M	/	/	/	/	/	/	/	/	/	/	/	/
40.	E1175046	Raashith Ahamed. S	/	/	/	/	/	/	/	/	/	/	/	/
41.	E1175048	Ramkumar. C	/	/	/	/	/	/	/	/	/	/	/	/
42.	E1175049	Ramkumar. R	/	/	/	/	/	/	/	/	/	/	/	/
43.	E1175052	Ranjith. S	/	/	/	/	/	aa		/	/	/	/	/
44.	E1175053	Rathinavel. P	/	/	/	/	/	/	/	/	/	/	/	/
45.	E1175054	Riyas Ahamed. A	/	/	/	/	/	/	/	/	/	/	/	/
46.	E1175055	Salman Baris. S	/	/	/	/	/	/	/	/	/	/	/	/
47.	E1175056	Samsath Begam. S	/	/	/	/	/	/	/	/	/	/	/	/
48.	E1175057	Saran. K	/	/	/	/	/	/	/	/	/	/	/	/
49.	E1175059	Sarthaj. S	/	/	/	/	/	/	/	/	/	/	/	/
50.	E1175060	Sasidharan. S	aa		/	/	/	/	/	/	/	/	/	/

SL.NO	ROLL NO	STUDENT NAME	21	22	23	24	24	25	26	27	28	29	30	R & T
51.	E1175061	Selvakumar. S	/	/	/	/	/	/	/	/	/	/	/	/
52.	E1175062	Sheik Dawood. M	/	/	/	/	/	/	/	/	/	/	/	/
53.	E1175063	Sirajudeen. A	/	/	/	/	/	/	/	/	/	/	/	/
54.	E1175064	Sriramkumar. S	/	/	/	/	/	/	/	/	/	/	/	/
55.	E1175065	Steffi Monica. A	/	/	/	/	/	/	/	/	/	/	/	/
56.	E1175066	Sundharesan. R	/	/	/	/	/	/	/	/	/	aa	/	/
57.	E1175067	Surya. M	/	/	/	/	/	aa	/	/	/	/	/	/
58.	E1175068	Surya. S	/	/	/	/	/	/	/	/	/	/	/	/
59.	E1175070	Thoulathul Fahmeetha. F	/	/	/	/	/	/	/	/	/	/	/	/
60.	E1175071	Vasudevan. K	/	/	/	/	/	/	/	/	/	/	/	/
61.	E1175072	Venkatesh. M	/	/	/	/	/	/	/	/	/	/	/	/
62.	E1175073	Vignesh. G	/	/	/	/	/	/	/	/	/	/	/	/
63.	E1175074	Vijaya Kumar. J	/	/	/	/	/	/	/	/	/	/	/	/
64.	E1175075	Vishnu. V	/	/	/	/	/	/	/	/	/	/	/	/
65.	E1175077	Yogeshwar. S	/	/	/	/	/	/	/	/	/	/	/	/
66.	E2185080	Bharathvaj. KS	/	/	/	/	/	/	/	/	/	/	/	/
67.	E2185081	Ganesh. R	/	/	/	/	/	/	/	aa	/	/	/	/

SL.NO	ROLL NO	STUDENT NAME	21	22	23	24	24	25	26	27	28	29	30	R & T
68.	E2185083	Matthew. A	/	/	/	/	/	/	/	/	/	/	/	/
69.	E2185084	Parthiban. S	/	/	/	/	/	/	/	/	/	/	/	/
70.	E2185085	Thatchayeni. P	/	/	/	/	/	/	/	/	/	/	/	/
71.	E1185035	Priyadharshini. G	/	/	/	/	/	/	/	/	/	/	/	/
72.	E1185037	Ramya. S	/	/	/	/	/	/	/	/	/	/	/	/

1. R. Roy

2. G. Nalina Keethana
Course Coordinator

V. Channur
HoD/CSE

A. Raj
Principal

A. Raj
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Certificate Program Assessment Test

Name of the course: Implementation of Data Structures Using Python Programming

Date: 31-1-20

Course Code: CS19202

Time: 1:00 hr

Academic Year: 2019-2020

Total Marks: 30

Part A (3 marks *10 =30 marks)

1) What does h(3231) return for the following function definition?

```
def h(x):  
    (m, a) = (1, 0)  
    while m <= x:  
        (m, a) = (m*2, a+1)  
    return(a)
```

2) What is g(24) - g(23), given the definition of g below?

```
def g(n):  
    s=0  
    for i in range(1, n+1):  
        if n%i == 0:  
            s = s+1  
    return(s)
```

3) Consider the following function f.

```
def f(n):  
    s=0  
    for i in range(1, n+1):  
        if n%i == 0:  
            s = s+1  
    return(s%2 == 1)
```


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The function $f(n)$ given above returns True for a positive number n if and only if:

- n is an odd number.
- n is a prime number.
- n is a composite number.
- n is a perfect square.

4) Suppose we we apply `delete_max()` twice to the heap [100,97,93,38,67,54,93,17,25,42]. What is the resulting heap?

5.

Consider the following Python function.

```
def mystery(l):  
    if l == []:  
        return (1)  
    else:  
        return (l[-1:] + mystery(l[:-1]))
```

What does `mystery([31,32,71,18,51])` return?

6.

What is the value of `pairs` after the following assignment?

```
pairs = [ (x,y) for x in range(3,0,-1) for y in range(2,0,-1) if (x+y)%3  
== 0 ]
```

7.


```
marks = {"Quizzes":{"Mahesh":[3,5,7,8],"Suresh":[9,4,8,8],"Uma":[9,9,  
7,6]}, "Exams":{"Mahesh":[37],"Uma":[36]}}
```

Which of the following statements does not generate an error?

- `marks["Exams"]["Suresh"][0:] = [44]`
- `marks["Exams"]["Suresh"].append(44)`
- `marks["Exams"]["Suresh"] = [44]`
- `marks["Exams"]["Suresh"].extend([44])`

8.

Suppose we insert 97 into the max heap [98,67,89,38,42,54,89,17,25]. What is the resulting heap?


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9.

```
def f(m):  
    if m == 0:  
        return(0)  
    else:  
        return(m+f(m-1))
```

Which of the following is correct?

- The function always terminates with $f(n) = \text{factorial of } n$
- The function always terminates with $f(n) = n(n+1)/2$
- The function terminates for nonnegative n with $f(n) = \text{factorial of } n$
- The function terminates for nonnegative n with $f(n) = n(n+1)/2$

10.

```
x = [13, 4, 17, 1000]  
w = x[1:]  
u = x[1:]  
y = x  
u[0] = 50  
y[1] = 40
```

Which of the following is correct?

- $x[1] == 40, y[1] == 40, w[0] == 4, u[0] == 50$
- $x[1] == 50, y[1] == 40, w[0] == 50, u[0] == 50$
- $x[1] == 4, y[1] == 40, w[0] == 4, u[0] == 50$
- $x[1] == 40, y[1] == 40, w[0] == 50, u[0] == 50$

L. R. Dey

G. Nalina Keethana V. Chandra
Course Coordinator HoD/CSE

A. S. S.
Principal

A. S. S.
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M.I.E.T. ENGINEERING COLLEGE
GUNDUR, TIRUCHIRAPPALLI-620 007.



M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
UG - CSE, EEE & MECH Programs Accredited by NBA, New Delhi.
TRICHY - PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI - 620 007.
Email: principalengg@miet.edu, contact@miet.edu
Website: - www.miet.edu

Ph: 0431 - 2660 303

One Page Report

Name of the course: Implementation of Data Structures Using Python Programming

Course Code: CS19202

Course Coordinator: Mrs.R.Deepa., AP /CSE & Mrs.G.Nalina Keerthana., ASP /CSE

Total Hours: 30

Academic Year: 2019-2020

I hereby affirm that the entire course contents listed in the course syllabus of the certificate program "Implementation of Data Structures Using Python Programming" has educated to the students as the part of the prescribed co - curricular activities through certificate program.

They have been given the major concepts of the topics mentioned and students can able to implement Data Structures using Python Programming and also able to build python programs for data structures concepts.

I confirmed that the certificate program titled as "Implementation of Data Structures Using Python Programming" has been conducted in the beginning of the semester and course delivery along with attendance of the students was recorded.

I confirmed that all the students were actively attended this certificate program and performed well throughout the program and eligible students received the certificate.

1. R. Deepa
2. G. Nalina Keerthana
Course Coordinator

Channu
HoD/CSE

A. S. S.
Principal

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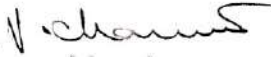
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Course Completion Certificate

This is to Certify that Mr/Ms. G. PRIYADHARSHINI
of II yr CSE has Completed the Course on
Implementation of DS using Python from 3.1.20 to 31.1.20
Programming


Course Coordinator


Hod


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Course Completion Certificate

This is to Certify that Mr/Ms. M. BHARATHY

of III yr CSE has Completed the Course on

Implementation of DS Using python from 3.1.20 to 31.1.20
Programming


Course Coordinator


Hod


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Course Completion Certificate

This is to Certify that Mr/Ms. S. MOHAMED AJMAL

of III yr CSE has Completed the Course on

Implementation of DS using Python from 3.1.20 to 31.1.20.
Programming

R. D. P.
Course Coordinator

V. Channu
Hod

A. S. J.
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A. S. J.
Principal

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Course Completion Certificate

This is to Certify that Mr/Ms. A. STEFFI MONICA

of III yr CSE has Completed the Course on

Implementation of DS Using Python from 3.1.20 to 31.1.20
Programming

R. App
Course Coordinator

V. Chandu
Hod

A. J. J.
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A. J. J.
Principal

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Course Completion Certificate

This is to Certify that Mr/Ms. _____

S. YOGESHWAR

of III yr CSE _____ has Completed the Course on

Implementation of DS Using Python from 3.1.20 to 31.1.20
Programming

R. Raju
Course Coordinator

V. Channu
Hod

A. Raju
PRINCIPAL
M.I.E.T. ENGINEERING COLLEGE
GUNDUR, TIRUCHIRAPPALLI-620 007,

A. Raju
Principal