



AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Approved by All India Council for Technical Education - New Delhi, Affiliated to Anna University, Chennai
NAAC Accredited Institution

"Nizara Educational Campus", Muthapudupet, Avadi - IAF, Chennai - 600 055.

ANNA UNIVERSITY COUNSELLING CODE : 1101



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Dated on: 5/10/2018

CIRCULAR


FACULTY MEMBERS AND STUDENTS


We have planned to conduct Value Added course in our department on the topic "PYTHON" from 08/10/2018 to 12/10/2018 therefore, I request all the Faculty members and students to attend the course and make utilization of the course for your future.

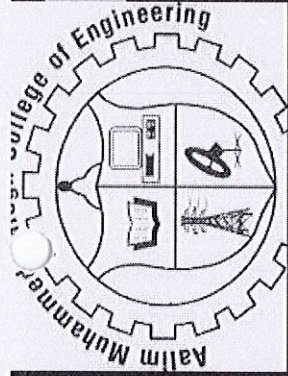
Resource Person:

Er. MUHAMMED ILYAS B.E, M.E.,
AMSCE ALUMNUS
BATCH 2008 – 2012(ECE)
CEO, EXPERT IT TRAINING

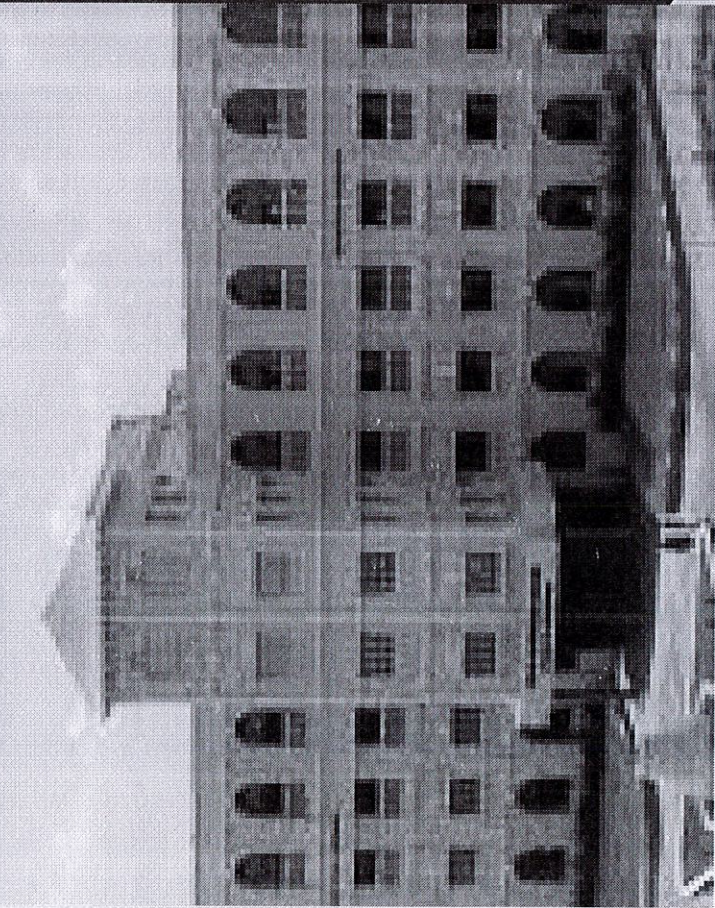
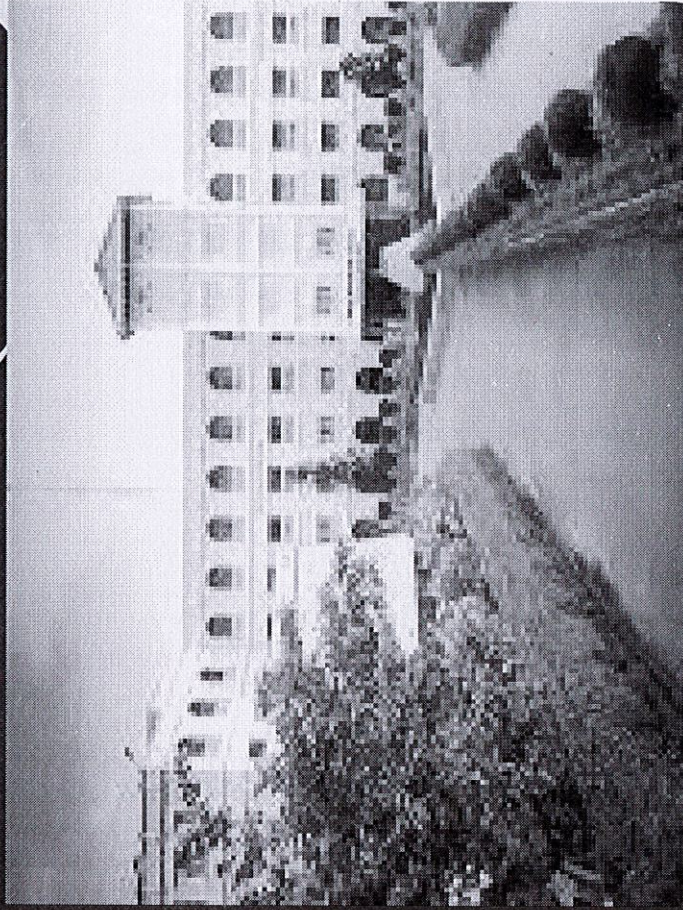



Prof. Dr. A.S.SALMA BANU
HoD/ECE


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OF ENGINEERING**



PYTHON

**08/10/18 to 12/10/18
Timing: 9:00AM to 3.50PM**

**Prof. A. S. Salma Babu
HOD/ECE**

VALUE ADDED COURSE

**RESOURCE PERSON
Er.MUHAMMED ILYAS
CEO,EXPERT IT TRAINING**

hse
**PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING**



**Prof. Dr. AFZAL ALI
Principal**

**Alhaj.S.Segu Jamuludeen
Secretary & Correspondent**



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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

VALUE-ADDED COURSE-SUMMARY REPORT

COURSE NAME: PYTHON

Date: 08/10/2018 to 12/10/2018

Time: Morning Session: 9.00 am to 12.00 pm

Afternoon Session: 12:50 pm to 3:50 pm

No. of Days: 5

No. of Modules: 5

Course Hours: 30

Mode of Conduction: Offline

Speaker: Er. MUHAMMED ILYAS

Attended Students: 94

Objective of the Course:

This course aims to deepen participants' understanding of advanced Python programming concepts, focusing on enhancing code efficiency, flexibility, and scalability. Through topics such as decorators, metaclasses, asynchronous programming, and concurrency, the course equips participants with skills to build highly responsive and maintainable applications that can handle complex data processing tasks in real-time.

Summary of the Course:

This course covers advanced Python programming techniques that empower developers to write more efficient, robust, and dynamic code. It begins with decorators and metaclasses for modifying functions and class behavior, followed by asynchronous programming to manage I/O-bound tasks effectively.

Course Outcomes:

Upon completing this course, participants will be able to:

- **Decorators and Metaclasses:** Use decorators to modify or extend the behavior of functions and classes, and apply metaclasses to dynamically control class creation and behavior.

M02

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- **Asynchronous Programming (AsyncIO):** Implement non-blocking code with `async` and `await` keywords to handle I/O-bound tasks, enhancing application responsiveness and efficiency in data processing.
- **Generators and Iterators:** Use generators to handle large datasets memory-efficiently and design custom iteration logic with iterators, supporting lazy data loading and efficient data access.
- **Type Hinting and Static Typing:** Apply type hinting and leverage Python's `typing` module to improve code readability, facilitate debugging, and increase compatibility with static analyzers for collaborative, large-scale projects.
- **Concurrency and Parallelism (Threading and Multiprocessing):** Employ threading and multiprocessing to execute tasks concurrently, optimizing performance for both I/O-bound and CPU-bound tasks.



M2
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AVADI - IAF, MUTHAPUDUPET
CHENNAI 600 055

Place: Chennai
Date: 26 /09/2019

From,

Head of the Department
Department of ECE
Aalim Muhammed Salegh College of Engineering
Avadi IAF, Muthapudupet
Chennai - 600055

To,

The Principal
Aalim Muhammed Salegh College of Engineering
Avadi IAF, Muthapudupet
Chennai - 600055

Respected Sir,

Sub: Requisition for the approval to conduct Value Added course in our ECE department – Reg.

We wish to conduct Value Added course in our ECE department on the topic
"PYTHON" an Alumni Guest Lecture Series From 08/10/2018 to 12/10/2018.

Resource Person:

Er. MUHAMMED ILYAS B.E, M.E.,
AMSCE ALUMNUS
BATCH 2008 – 2012(ECE)
CEO, EXPERT IT TRAINING

The objective of conducting this Value Added course will give the industry focus in developing skills required by using latest technology advancement in "PYTHON". This effort will benefit our Student's community and bring core strength in engineering field.

Thank you,

Yours truly,

Dr. A. S. Salmabanu
Professor Dr. A. S. SALMABANU
Head of the Department/ECE



permitted to

A. S. Salmabanu
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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

CERTIFICATE COURSE-PYTHON

COURSE CONTENT:

| Day/Date | CONTENT | Description | HOURS |
|----------|---|---|-------|
| Day 1 | Decorators and Metaclasses | <ul style="list-style-type: none"> Decorators allow you to modify or extend the behavior of functions or classes in a flexible, reusable way, without altering their source code. Metaclasses provide a way to control the creation of classes themselves, allowing you to inject functionality or modify class behavior dynamically. | 6 |
| Day 2 | Asynchronous Programming (AsyncIO) | <ul style="list-style-type: none"> <code>async</code> and <code>await</code> keywords in Python allow for non-blocking code execution, making it ideal for handling I/O-bound tasks such as web requests or file I/O. <code>ASyncIO</code> helps build responsive programs that can perform multiple tasks simultaneously, reducing wait times in data processing and web applications. | 6 |
| Day 3 | Generators and Iterators | <ul style="list-style-type: none"> Generators use <code>yield</code> to produce values one at a time, which can be memory-efficient for large datasets. Iterators enable custom iteration logic and are fundamental to implementing lazy loading, where data is loaded on demand rather than upfront. | 6 |
| Day 4 | Type Hinting and Static Typing | <ul style="list-style-type: none"> Python's type hinting with <code>typing</code> module helps improve code readability, debugging, and compatibility with static analyzers (like <code>mypy</code>), making it easier to manage complex projects and collaborate in larger teams Key types include <code>Union</code>, <code>Optional</code>, and <code>generics</code>, which provide additional control and precision in defining data types. | 6 |



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| | | | |
|-------|--|---|---|
| Day 5 | <p align="center">Concurrency and Parallelism (Threading and Multiprocessing)</p> | <ul style="list-style-type: none"> • The threading and multiprocessing modules enable concurrent execution, with threading being ideal for I/O-bound tasks and multiprocessing suited to CPU-bound tasks. • These modules are critical for improving performance in applications that require simultaneous processing, such as real-time data processing or high-performance computing tasks. | 6 |
|-------|--|---|---|

TOTAL=30 HRS

HEAD/ECE

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Value Added Course Tentative Time Table And Schedule

Value Added Course Name: PYTHON

Date of Commencement: From 08/10/2018

Timing: Morning Session: 9.00 am to 12.00 pm

Afternoon Session: 12:50 pm to 3:50 pm

Tentative Date of Exam- 12/10/2018

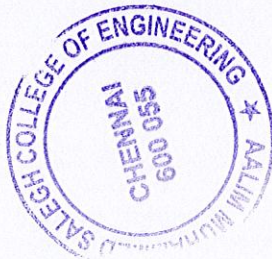
Tentative Course Schedule - 08/10/2018 to 12/10/2018 (As per following)

No. Of Days: 5

Course Hours: 30

Speaker: Mr. Er. MUHAMMED ILYAS B.E, M.E.,

1. Module -1:Decorators & Meta classes – 08-10-2018 – 6 Hours
2. Module -2:Asynchronous Programming (AsyncIO) – 09-10-2018 – 6 Hours
3. Module -3:Generators & Iterators – 10-10-2018 – 6 Hours
4. Module -4:Type Hinting & Static Typing – 11-10-2018 – 6 Hours
5. Module -5:Concurrency & Parallelism (Threading and Multiprocessing) – 12-10-2018 – 6 Hours




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VALUE ADDED COURSE-PYTHON (2018-2019)

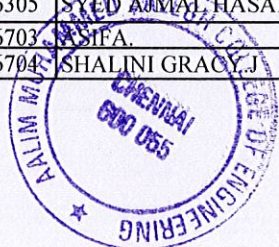
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Year : IV

Sem : VIII

Sec: A

| Sl.No. | Roll.No | Name | 8/10/18 | 9/10/18 | 10/10/18 | 11/10/18 | 12/10/18 |
|--------|--------------|-----------------------|--------------|--------------|--------------|--------------|--------------|
| 1 | 110115106001 | AAKIFAH JABEEN | Aakif | Aakif | Aakif | Aakif | Aakif |
| 2 | 110115106002 | ABDUL BARI N | Barin | Barin | Barin | Barin | Barin |
| 3 | 110115106003 | ABDUL KADAR K M | Kadar | Kadar | Kadar | Kadar | Kadar |
| 4 | 110115106004 | ABDUL KALAM AZAD J H | Kalam | Kalam | Kalam | Kalam | Kalam |
| 5 | 110115106005 | ABDUL RAHIM R | Rahim | Rahim | Rahim | Rahim | Rahim |
| 6 | 110115106006 | ABIVANDHANA B S | Abivandhana | Abivandhana | Abivandhana | Abivandhana | Abivandhana |
| 7 | 110115106007 | AFRIDI V S | Afridi | Afridi | Afridi | Afridi | Afridi |
| 8 | 110115106008 | AHAMED RASIM H | Rasim | Rasim | Rasim | Rasim | Rasim |
| 9 | 110115106009 | AHAMED RASMI Z | Rasmi | Rasmi | Rasmi | Rasmi | Rasmi |
| 10 | 110115106010 | AJITH KUMAR M | Ajith | Ajith | Ajith | Ajith | Ajith |
| 11 | 110115106011 | ALFIA FATHIMA D | Alfia | Alfia | Alfia | Alfia | Alfia |
| 12 | 110115106012 | ALIYA SHEERIN K M | Aliya | Aliya | Aliya | Aliya | Aliya |
| 13 | 110115106013 | ANBARASU E | Anbarasu | Anbarasu | Anbarasu | Anbarasu | Anbarasu |
| 14 | 110115106014 | ASLAM FARHAN M | Aslam | Aslam | Aslam | Aslam | Aslam |
| 15 | 110115106015 | ATHIF AHAMED J | Athif | Athif | Athif | Athif | Athif |
| 16 | 110115106016 | BALAJI P | Balaji | Balaji | Balaji | Balaji | Balaji |
| 17 | 110115106017 | BALAMURUGAN G | Balamurugan | Balamurugan | Balamurugan | Balamurugan | Balamurugan |
| 18 | 110115106018 | BALUROBINSON | Balurobinson | Balurobinson | Balurobinson | Balurobinson | Balurobinson |
| 19 | 110115106020 | FAHIM MALIM F | Fahim | Fahim | Fahim | Fahim | Fahim |
| 20 | 110115106021 | FAIZAL HASAN S | Faizal | Faizal | Faizal | Faizal | Faizal |
| 21 | 110115106022 | FAIZAN AHMED O | Faizan | Faizan | Faizan | Faizan | Faizan |
| 22 | 110115106023 | FARHANA SHAHIN E | Farhana | Farhana | Farhana | Farhana | Farhana |
| 23 | 110115106024 | FATHIMA BEEVI M | Fathima | Fathima | Fathima | Fathima | Fathima |
| 24 | 110115106026 | FAYAZ KHAN F M | Fayaz | Fayaz | Fayaz | Fayaz | Fayaz |
| 25 | 110115106027 | GEETHA LAKSHMI V | Geetha | Geetha | Geetha | Geetha | Geetha |
| 26 | 110115106029 | GULNAAZ FATHIMA J | Gulnaaz | Gulnaaz | Gulnaaz | Gulnaaz | Gulnaaz |
| 27 | 110115106030 | HAFIZUL RAHMAN R | Hafizul | Hafizul | Hafizul | Hafizul | Hafizul |
| 28 | 110115106031 | HAJIRA BEGUM M S | Hajira | Hajira | Hajira | Hajira | Hajira |
| 29 | 110115106032 | HAJIRA FATHIMA A J | Hajira | Hajira | Hajira | Hajira | Hajira |
| 30 | 110115106033 | HAMEEDA BANU I | Hameeda | Hameeda | Hameeda | Hameeda | Hameeda |
| 31 | 110115106034 | HAMEED NILAM A | Hameed | Hameed | Hameed | Hameed | Hameed |
| 32 | 110115106035 | HAMEEDULLAH M | Hameed | Hameed | Hameed | Hameed | Hameed |
| 33 | 110115106036 | HUSNARA BEGUM S | Husnara | Husnara | Husnara | Husnara | Husnara |
| 34 | 110115106037 | ILAMPARITHI R V | Ilamparithi | Ilamparithi | Ilamparithi | Ilamparithi | Ilamparithi |
| 35 | 110115106038 | ISHARATH JABEEN I | Isharath | Isharath | Isharath | Isharath | Isharath |
| 36 | 110115106039 | JAINUL AFRATH M | Jainul | Jainul | Jainul | Jainul | Jainul |
| 37 | 110115106040 | JANANI V | Janani | Janani | Janani | Janani | Janani |
| 38 | 110115106043 | JEBIMA JALQUILINE J S | Jebima | Jebima | Jebima | Jebima | Jebima |
| 39 | 110115106044 | JENIFER A | Jenifer | Jenifer | Jenifer | Jenifer | Jenifer |
| 40 | 110115106045 | KALAI SELVI V | Kalai | Kalai | Kalai | Kalai | Kalai |
| 41 | 110115106047 | KAVIKARAN V | Kavikaran | Kavikaran | Kavikaran | Kavikaran | Kavikaran |
| 42 | 110115106301 | HUSSAIN BEE S | Hussain | Hussain | Hussain | Hussain | Hussain |
| 43 | 110115106303 | MOHAMMED WAJEETH K | Mohammed | Mohammed | Mohammed | Mohammed | Mohammed |
| 44 | 110115106304 | MOHIDEEN ABDUL KHADER | Mohideen | Mohideen | Mohideen | Mohideen | Mohideen |
| 45 | 110115106305 | SYED AMAL HASAN A | Syed | Syed | Syed | Syed | Syed |
| 46 | 110115106703 | ASIFA | Asifa | Asifa | Asifa | Asifa | Asifa |
| 47 | 110115106704 | SHALINI GRACY J | Shalini | Shalini | Shalini | Shalini | Shalini |



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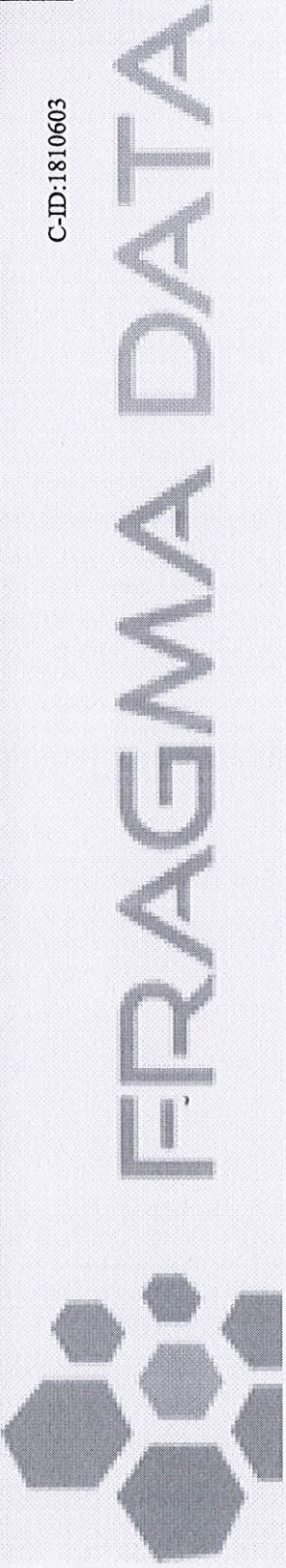
AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
VALUE ADDED COURSE-PYTHON (2018-2019)
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
 Year : IV Sem : VIII Sec: B

| Sl.No. | Roll.No | Name | 8/10/18 | 9/10/18 | 10/10/18 | 11/10/18 | 12/10/18 |
|--------|--------------|---------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1 | 110115106048 | Kavya pradeep | Kavya | Kavya | Kavya | Kavya | Kavya |
| 2 | 110115106049 | Kuraisha shabana. P.A | Kuraisha | Kuraisha | Kuraisha | AB | Kuraisha |
| 3 | 110115106050 | Madhubala S | Madhubala | Madhubala | Madhubala | Madhubala | AB |
| 4 | 110115106051 | Manikandan R | Manikandan | Manikandan | Manikandan | AB | Manikandan |
| 5 | 110115106052 | Md affan C | Md affan | Md affan | Md affan | Md affan | Md affan |
| 6 | 110115106053 | Md arshath khan K.A | Md arshath | Md arshath | Md arshath | Md arshath | Md arshath |
| 7 | 110115106054 | Mohamed ejaz M | Mohamed | Mohamed | Mohamed | AB | Mohamed |
| 8 | 110115106055 | Mohamed eliyas S | Mohamed | AB | AB | Jal | Jal |
| 9 | 110115106056 | Mohamed jaffer S.M | Mohamed | AB | jaffer | jaffer | jaffer |
| 10 | 110115106057 | Mohamed mujammil M | Mohamed | Mohamed | Mohamed | Mohamed | Mohamed |
| 11 | 110115106058 | Mohamed nainar zubair M A | Mohamed | Mohamed | AB | Mohamed | Mohamed |
| 12 | 110115106059 | Mohamed rasif M | Mohamed | Mohamed | Mohamed | Mohamed | Mohamed |
| 13 | 110115106060 | Mohammed anas S | Mohammed | Mohammed | Mohammed | AB | Mohammed |
| 14 | 110115106061 | Mohammed fazul rahman B | Mohammed | Mohammed | Mohammed | Mohammed | AB |
| 15 | 110115106062 | Mohammed ibrahim A H | Mohammed | Mohammed | AB | Mohammed | Mohammed |
| 16 | 110115106063 | Mohammed junaid | Mohammed | Mohammed | AB | Mohammed | Mohammed |
| 17 | 110115106064 | Mohammed razeen S M | Mohammed | Mohammed | Mohammed | Mohammed | Mohammed |
| 18 | 110115106065 | Mohammed usama nadeem I | Mohammed | Mohammed | Mohammed | Mohammed | Mohammed |
| 19 | 110115106066 | Mohammed yasheer M | Mohammed | Mohammed | Mohammed | Mohammed | Mohammed |
| 20 | 110115106067 | Mookambigai S | Mookambigai | Mookambigai | Mookambigai | Mookambigai | AB |
| 21 | 110115106068 | Nagaraj R | Nagaraj | Nagaraj | Nagaraj | Nagaraj | Nagaraj |
| 22 | 110115106069 | Naseema parveen K | Naseema | Naseema | Naseema | Naseema | Naseema |
| 23 | 110115106070 | Naveeth mohamed M B | Naveeth | Naveeth | Naveeth | Naveeth | Naveeth |
| 24 | 110115106071 | Pavithra M | Pavithra | Pavithra | Pavithra | Pavithra | Pavithra |
| 25 | 110115106072 | Preethiga E | Preethiga | Preethiga | Preethiga | Preethiga | Preethiga |
| 26 | 110115106073 | Raghavakumar G | Raghavakumar | Raghavakumar | Raghavakumar | Raghavakumar | Raghavakumar |
| 27 | 110115106074 | Rajesh R | Rajesh | Rajesh | Rajesh | AB | Rajesh |
| 28 | 110115106075 | Raj kumar M | Raj kumar | AB | AB | Raj kumar | Raj kumar |
| 29 | 110115106076 | Roja priyadarshini K | Roja priyadarshini | Roja priyadarshini | Roja priyadarshini | Roja priyadarshini | Roja priyadarshini |
| 30 | 110115106078 | Roshini R | Roshini | Roshini | Roshini | Roshini | Roshini |
| 31 | 110115106079 | Ruksar M | Ruksar | AB | Ruksar | Ruksar | Ruksar |
| 32 | 110115106080 | Sadikha fathima S | Sadikha | Sadikha | Sadikha | Sadikha | Sadikha |
| 33 | 110115106081 | Safiq noor mohamed V N M | Safiq noor | Safiq noor | Safiq noor | AB | Safiq noor |
| 34 | 110115106082 | Salma begum N | Salma | Salma | Salma | AB | AB |
| 35 | 110115106084 | Santhanavignesh K | Santhanavignesh | Santhanavignesh | Santhanavignesh | Santhanavignesh | Santhanavignesh |
| 36 | 110115106085 | Santhosh mohana prakash T | Santhosh | Santhosh | Santhosh | Santhosh | Santhosh |
| 37 | 110115106086 | Shahin fathima M | Shahin | Shahin | AB | Shahin | Shahin |
| 38 | 110115106087 | Sithi fathima S | Sithi | Sithi | Sithi | Sithi | Sithi |
| 39 | 110115106088 | Siva saravanan S | Siva saravanan | Siva saravanan | Siva saravanan | Siva saravanan | Siva saravanan |
| 40 | 110115106089 | Sumaiyah M | Sumaiyah | Sumaiyah | Sumaiyah | Sumaiyah | Sumaiyah |
| 41 | 110115106090 | Swathylakshmi S | Swathylakshmi | AB | Swathylakshmi | Swathylakshmi | Swathylakshmi |
| 42 | 110115106091 | Thahira A | Thahira | Thahira | AB | Thahira | AB |
| 43 | 110115106093 | Yaamini R | Yaamini | Yaamini | Yaamini | Yaamini | Yaamini |
| 44 | 110115106094 | Yashmin A | Yashmin | AB | Yashmin | Yashmin | AB |
| 45 | 110115106095 | Yogesh A G | Yogesh | Yogesh | Yogesh | Yogesh | Yogesh |
| 46 | 110115106096 | Yuvaraj J | Yuvaraj | Yuvaraj | Yuvaraj | Yuvaraj | AB |
| 47 | 110115106701 | S. PRIYANKA | S. PRIYANKA | S. PRIYANKA | AB | S. PRIYANKA | S. PRIYANKA |



PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

C-ID:1810603



CERTIFICATE OF PARTICIPATION

This certificate is presented to:

ABDUL KALAM AZAD J H

has successfully completed 5 days of valued Added Course in "PYTHON" from 08/10/2018 to 12/10/2018. We appreciate your hard work & Sincerity towards your course and wish you good luck for your future endeavor.

Muhammad Ilyas

MUHAMMED ILYAS

Reddy Janna Kumar

REDDY KUMAR
Co Founder & CEO at
Fragma Data Systems



W
PRINCIPAL
AALIM MUHAMMED SALEEM
COLLEGE OF ENGINEERING

C-ID:1810601



CERTIFICATE OF PARTICIPATION

This certificate is presented to:

ABDUL BARI N

has successfully completed 5 days of valued Added Course in "PYTHON" from 08/10/2018 to 12/10/2018. We appreciate your hard work & Sincerity towards your course and wish you good luck for your future endeavor.

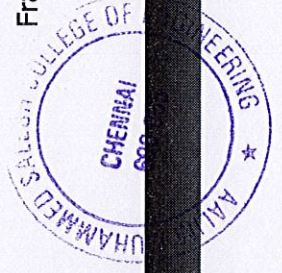
Muhammad Ilyas

MUHAMMED ILYAS
Trainer

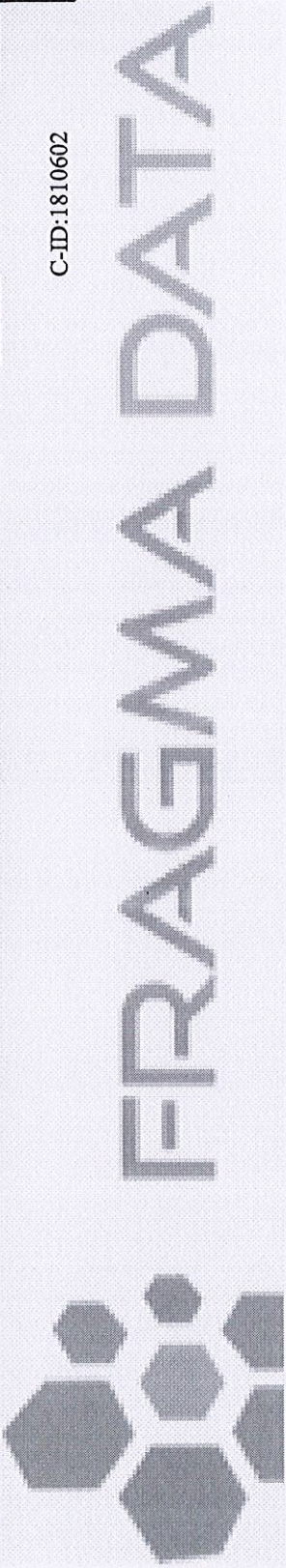
Reddy Vanna Kumar

REDDY KUMAR
Fragma Data Systems

ver
PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING



C-ID:1810602



CERTIFICATE OF PARTICIPATION

This certificate is presented to:

ABDUL KADAR K M

has successfully completed 5 days of valued Added Course in "PYTHON" from 08/10/2018 to 12/10/2018. We appreciate your hard work & Sincerity towards your course and wish you good luck for your future endeavor.

Muhammed Ilyas

MUHAMMED ILYAS

Reddy Vanna Kumar

REDDY KUMAR
Co Founder & CEO at
Fragma Data Systems

