



DVR & Dr. HS
MIC College of Technology

ISO 9001:2015 Certified Institute
(Approved by AICTE & Permanently Affiliated to JNTU-K. Rameswaram)
Kanchikacherry - 521180, Krishna Dist. A.P. India
Phones: 08678 - 273535 - 94914 57999 - 73876 16824
E-mail: office@mictech.ac.in, Website: www.mictech.edu.in



Department of Information Technology

List of Value Added Courses

A.Y:2020-21

| S.No | Name of The Course | Dates | Year | No. of Students Attended |
|------|---|--------------------------|----------------------------|--------------------------|
| 1 | Certification Programme On Advanced Python Programming | 21-12-2020 to 27/12/2020 | II B. Tech IT III Semester | 61 |
| 2 | Hands On Workshop On Object Oriented Programming Using Java | 25/10/2021 to 29/10/2021 | III B. Tech IT V Semester | 60 |
| 3 | Training Programme On Python Fundamentals | 11/10/2021 TO 16/10/2021 | IV B. Tech VII Semester | 57 |
| 4 | One Week Training Programme On Data Structures Through Python | 25/10/2021 TO 29/10/2021 | IV B. Tech VII Semester | 57 |

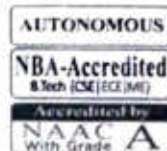

Signature of Coordinator


Signature of HoD



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Department of Information Technology

A.Y:2020-21

II B.Tech (IT) Students List

| S.NO | REGD NO | NAME OF THE STUDENT | COURSE NAME | DURATION |
|------|------------|---------------------------|---|------------------------|
| 1 | 19H71A1204 | Chandra Mouli Setti | Programming Essentials in Python | 21-5-2021 to 23-6-2021 |
| 2 | 19H71A1206 | Dayakar Yedumbakula | Programming Essentials in Python | 21-5-2021 to 23-6-2021 |
| 3 | 19H71A1206 | Dayakar Yedumbakula | Usable Security | 21-5-2021 to 23-6-2021 |
| 4 | 19H71A1215 | Kavya Jaladi | Programming Essentials in Python | 25-5-2021 to 27-6-2021 |
| 5 | 19H71A1244 | Sai Anu Deepthi Malliseti | Programming Essentials in Python | 20-5-2021 to 22-6-2021 |
| 6 | 19H71A1261 | Venkatasiva Vattikuti | Programming for Everybody (Getting Started with Python) | 11-6-2020 to 21-7-2020 |
| 7 | 19H71A1262 | Yasaswini Damarla | Python for Machine Learning | 12-6-2020 to 15-7-2020 |
| 8 | 19H71A1262 | Yasaswini Damarla | Command Line and Git | 1-6-2020 to 2-7-2020 |

K. Vinay Sree
Signature of Coordinator

[Signature]
Signature of HoD



Devineni Venkata Ramana & Dr.Hima Sekhar
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DEPARTMENT OF INFORMATION TECHNOLOGY

Certification Program on Advanced Python Programming

Registration fee: **FREE**



RESOURCE PERSON

Mr. Saketh Kallepu
Chief Management Officer
And Data Science Mentor
Codegnan IT Solution Vijayawada

COORDINATORS

Mr. K . Mahanti
Assistant professor

Mrs. S . Lavanya
Assistant professor

21-12-2020
TO
27-12-2020

| S NO. | TOPICS | TOPICS COVERED |
|-------|---|--|
| 1. | Programming Techniques | <ul style="list-style-type: none">• How to Use Logging• Testing for Modification• Debugging Techniques for Faster Programming |
| 2. | Measuring Performance | <ul style="list-style-type: none">• Timing Functions Profiling Memory |
| 3. | Some New Techniques and Modules | <ul style="list-style-type: none">• Dictionary• Formatted String Literals• Assignment Expression• Match Case Statement• Sets and Set Operators |
| 4. | Decorators, Closures, Lambdas, and Comprehensions | <ul style="list-style-type: none">• Introduction to Closures and Enclosed Functions• What Is a Decorator?• Understanding How Decorators Work• Writing a Simple Decorator |
| 5. | Data Structures | <ul style="list-style-type: none">• Basic Architectures• Exchanging Data Using JSON• Client & Server Programming for HTTP |
| 6. | Network Client Server | <ul style="list-style-type: none">• Counters, Arrays, Queues, Context Manager, Using with, Building a Context |
| 7. | RESTful Applications | <ul style="list-style-type: none">• Description• HTTP Requests and Responses |
| 8. | Concurrent Programming | <ul style="list-style-type: none">• What Is Concurrent Programming?• Working with Subprocesses• Techniques of Thread Programming• Details of Multiprocessing• Using concurrent.futures |



Devineni Venkata Ramana & Dr.Hima Sekhar
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e mail: devmiccollege@gmail.com, Website: www.mictech.ac.in



DEPARTMENT OF INFORMATION TECHNOLOGY

Day Wise Schedule For Certification Programme On Python Programming (21-12-2020 TO 27-12-2020)

| DAY | Session-1 (9AM-10:30AM) | 10:30AM To 11AM | Session-2 (11AM-12:30PM) | 12:30PM To 1:30PM | for Certification Programme On Advanced Session-3 (1:30PM-3PM) | 3 To 3:15PM | Session-4 (3:15PM-4:30PM) |
|------------|----------------------------|-----------------|-----------------------------|-------------------|---|-----------------------------|------------------------------|
| 21-12-2020 | Inauguration Function | Tea Break | | | Python Development Tools | Tea Break | |
| 22-12-2020 | Measuring Performance | Lunch Break | | | Measuring Performance | Programming Techniques Some | |
| 23-12-2020 | Data Structures | Lunch Break | | | Data Structures | New Techniques and Modules | |
| 24-12-2020 | Decorators, | Lunch Break | | | Lambdas, | RESTful Applications | |
| 25-12-2020 | Git and Revision Control | Lunch Break | | | Git and Revision Control | Network Client Server | |
| 26-12-2020 | Measuring Performance | Lunch Break | | | Measuring Performance | Comprehensions | |
| 27-12-2020 | Concurrent Programming | Lunch Break | | | Concurrent Programming | Closures, | |

Signature of Coordinator
(Mr. K.Mahanthi)

HOD
(Mr. D.Prasad)

Principal
(Dr. K.Srinivas)



Devineni Venkata Ramana & Dr.Hima Sekhar
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DEPARTMENT OF INFORMATION TECHNOLOGY

A REPORT ON CERTIFICATION PROGRAMME ON ADVANCED PYTHON PROGRAMMING

| | |
|---------------------------------|---|
| Event Type | : Skill Development Program |
| Date / Duration | : 21-12-2020 TO 27-12-2020 |
| Resource Person | : Mr. Saketh Kallepu Chief Management Officer and Data Science Mentor CODEGNAN IT SOLUTIONS, Vijayawada |
| Name of Coordinators | : 1. Mr. K.Mahanthi, Assistant Professor, Department of IT 2. Mrs. S.Lavanya Assistant Professor, Department of IT |
| Target Audience | : II BTech III semester students |
| Total no of Participants | : 66 |
| Objective of the event | : This programme is aimed to familiarize students on advanced topics in Python for professional programming. It contains sections on logging, debugging, profiling, and packaging. The course covers theory and programming ability. For each topic, the course presents one example, one or two new development exercises with class solutions, and one or two debugging exercises. |
| Topics covered | : Programming Techniques, Measuring Performance, Some New Techniques and Modules, Decorators, Closures, Lambdas, and Comprehensions, Data Structures Network Client Server, RESTful Applications, Concurrent Programming, Git and Revision Cont. |
| Outcome of event | : Students are familiar with Programming tools: Git, Jupyter Notebook, and pydoc Programming techniques: logging, debugging profiling, and packaging |

Description / Report on Event : Department of Information technology conducted a certification programme for the benefit of II BTech III semester IT students on advanced topics in python in association with Codegnan IT solutions, Vijayawada. The basic concepts are already covered in their second semester.

Feedback / Suggestions

: Students are participated in enthusiastic manner.
Planned to organize every year.

Photographs:



Signature of Coordinators
Mr.K.Mahanthi *K.Mahanthi*
Mrs. S.Lavanya

Mr.D.Prasad
Signature of HOD
(Mr.D.Prasad)

Dr.K.Srinivas
Signature of Principal
(Dr.K.Srinivas)

TOPICS COVERED

1. Review of java programming
2. Eclipse -IDE
3. Exception Handling
4. JUnit
5. RDMS & SQL
6. XML
7. AJAX
8. MAVEN
9. Hibernate
10. Spring
11. JDBC
12. Advanced JDBC Concept
13. RESET
14. ANGULAR



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DEPARTMENT OF INFORMATION TECHNOLOGY

HANDS ON WORKSHOP ON OBJECT ORIENTED PROGRAMMING USING JAVA

RESOURCE PERSON

Mr. Ch.Vijay Kumar

Head Of The Department

Basic Engineering Department

COORDINATOR

Mrs. A. Anuradha

Assistant Professor

Department of IT

Principal

Dr. K.Srinivas

M.Tech, PhD

25-10-2021
to
29-10-2021

FREE



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DEPARTMENT OF INFORMATION TECHNOLOGY

Day Wise Schedule for Certification Programme on Object Oriented Programming Using Java

(25-10-2021 to 29-10-2021)

| DAY | Session-1 (9AM-10:30AM) | 10:30AM To 11AM | Session-2 (11AM-12:30PM) | 12:30PM To 1:30PM | Session-3 (1:30PM-3PM) | 3 To 3:15PM | Session-4 (3:15PM-4:30PM) |
|------------|----------------------------|---------------------------------|-------------------------------------|-------------------|---------------------------|-------------|------------------------------|
| 25-10-2021 | Inauguration Function | Tea Break | Understanding the Eclipse Workspace | Lunch Break | Exception Handling | Tea Break | JUnit |
| 26-10-2021 | RDBMS & SQL | | XML | | AJAX | | |
| 27-10-2021 | Hibernate | | Spring | | JDBC | | Advanced JDBC Concepts |
| 28-10-2021 | Overview of HTML & CSS | | Servlets | | JSP & JavaScript | | REST |
| 29-10-2021 | Angular | Angular Components and Services | | | | | |

Signature of Coordinator
(Mrs.A.Anuradha)

HoD
(Mr.D.Prasad)

Principal
(Dr.K.Srinivas)



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DEPARTMENT OF INFORMATION TECHNOLOGY

**A REPORT ON SIX-DAYS HANDS ON WORKSHOP ON OBJECT ORIENTED
PROGRAMMING USING JAVA**

| | |
|---------------------------------|---|
| Event Type | : WORKSHOP |
| Date / Duration | : 25-10-2021 TO 29-10-2021 |
| Resource Person | : Mr. Ch.Vijay Kumar HoD, Basic Engineering Department DVR & Dr. HS MIC College of Technology. |
| Name of Coordinators | : Mrs. A.Anuradha, Assistant Professor, Department of IT |
| Target Audience | : III B.Tech V Semester Students |
| Total no of Participants | : 60 |
| Objective of the event | : The learning objectives of this course are: <ul style="list-style-type: none">• To learn why Java is useful for the design of desktop and web applications.• To learn how to implement object-oriented designs with Java.• To identify Java language components and how they work together in applications.• To design and program stand-alone Java applications.• To learn how to design a graphical user interface (GUI)• To understand how to use Java APIs for program development. |
| Topics covered | : Overview of Java Fundamentals, JDBC, Eclipse- IDE, Advanced JDBC Concepts, Exception Handling, Servlet, RDBMS & SQL, Spring framework. |
| Outcome of event | : Students are familiar with the topics that are used to develop and implement applications in Java with hands on training. |

Description / Report on Event : Department of Information technology conducted a certification programme for the benefit of III B.Tech V semester IT students on advanced topics in Java to implement projects using hands on training . The basic concepts are already

covered in their fourth semester. This workshop helps students in implementing mini projects in Java. Java Programming is intended for software engineers, systems analysts, program managers and user support personnel who wish to learn the Java programming language.

Feedback / Suggestions : Students are participated in enthusiastic manner.

Photographs:




Signature of Coordinator

(Mrs.A.Anuradha)


Signature of HOD

(Mr.D.Prasad)


Signature of Principal

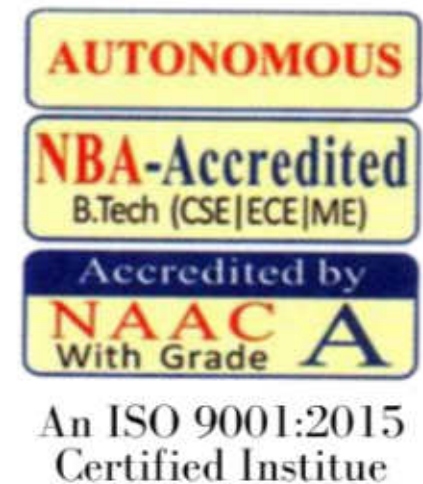
(Dr.K.Srinivas)



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DEPARTMENT OF INFORMATION TECHNOLOGY

TRAINING PROGRAM ON PYTHON FUNDAMENTALS

**Registration fee :
FREE**

RESOURCE PERSON

Mrs. A.Anuradha

Assistant Professor,
Department of IT

Coordinator

Mrs. S.Lavanya

Assistant Professor,
Department of IT

Principal

Dr.K. Srinivas

M . Tech , PhD

**11-10-2021
TO**

16-10-2021

1. Python Fundamentals

2. Measuring Performance

3. Data Structures

4. Lambdas

5. Git and Revision Control

6. Measuring Performance

7. New Techniques and Modules

8. Python Development Tools

9. REST full Applications

10. Network Client Server



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DEPARTMENT OF INFORMATION TECHNOLOGY

Day Wise Schedule for Certification Programme On Python Programming Fundamentals
(11-10-2021-16-10-2021)

| DAY | Session-1 (9AM-10:30AM) | 10:30AM To 11AM | Session-2 (11AM-12:30PM) | 12:30PM To 1:30PM | Session-3 (1:30PM-3PM) | 3 To 3:15PM | Session-4 (3:15PM-4:30PM) |
|------------|--|-----------------------|-----------------------------|-------------------------|---|-------------|--------------------------------|
| 11-10-2021 | Inauguration Function | Tea Break | | Lunch Break | Python Development Tools | Tea Break | Programming Techniques |
| 12-10-2021 | Measuring Performance | | | | Measuring Performance | | Programming Techniques Some |
| 13-10-2021 | Data Structures | | | | Data Structures | | New Techniques and Modules |
| 14-10-2021 | Decorators, Git and Revision Control | | | | Lambdas, Git and Revision Control | | RESTful Applications |
| 15-10-2021 | | | | | Network Client Server | | Network Client Server |
| | | | | | Comprehensions | | Comprehensions |
| 16-10-2021 | Measuring Performance | | Measuring Performance | | Closures, | | Closures, |


Signature of Coordinator
(Mrs. S.Lavanya)


HoD
(Mr. D.Prasad)


Principal
(Dr.K.Srinivas)



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DEPARTMENT OF INFORMATION TECHNOLOGY

**A REPORT ON TRAINING PROGRAMME ON PYTHON PROGRAMMING
FUNDAMENTALS**

Event Type : **PLACEMENT TRAINING PROGRAMME**

Date / Duration : 11-10-2021 TO 16-10-2021

Resource Person : **Mrs. A.Anuradha**
Assistant Professor,
DVR & Dr .HS MIC College of Technology.

Name of Coordinators : **Mrs. S.Lavanya**
Assistant Professor, Department of IT

Target Audience : IV B.Tech VII Semester Students

Total no of Participants : 55

Objective of the event : The learning objectives of this course are:

Topics covered : Overview of Java Fundamentals, JDBC, Eclipse- IDE,
Advanced JDBC Concepts, Exception Handling, Servlet, RDBMS & SQL, String
framework.

Outcome of event : Students are familiar with

- Enhance data analysis skills: With Python Programming, you can easily analyze and manipulate data, making it easier to extract insights and make informed decisions.
- Improve coding skills: Learning Python Programming for data science will give you a foundation in coding that can be useful in a variety of other applications.
- Stay relevant in the job market: Python Programming is one of the most widely used languages in data science, so learning it can help keep you competitive in the job market.

- Open up new job opportunities: With the increasing demand for data science professionals, there are many job opportunities available for those with Python Programming skills.

Description / Report on Event : Department of Information technology conducted a Training programme on Python Fundamentals for the benefit of IV B.Tech VII semester IT students. This training is particularly helpful for final year students to seek job opportunities while attending campus placements.

Feedback / Suggestions : Students are participated in enthusiastic manner.



Signature of Coordinator

(Mrs. S.Lavanya)



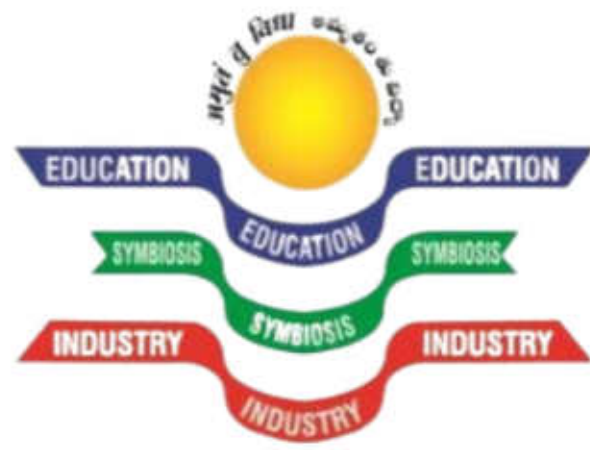
Signature of HOD

(Mr. D.Prasad)



Signature of Principal

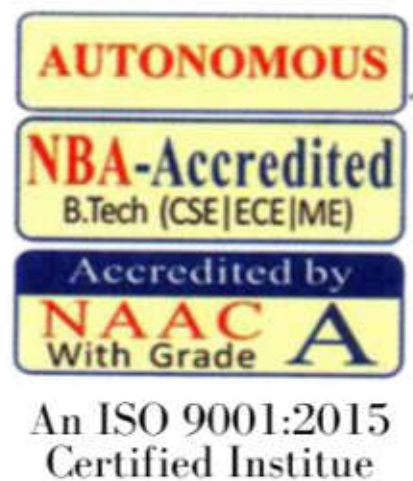
(Dr.K.Srinivas)



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DEPARTMENT OF INFORMATION TECHNOLOGY

ONE WEEK TRAINING PROGRAMME ON DATA STRUCTURES THROUGH PYTHON

Registration Fee
FREE

RESOURCE PERSON

Mr .K.Swami

Assistant Professor,
DVR & Dr HS MIC College of Technology.

Coordinator

Mr. P.Narasimha Rao

Assistant Professor,
Department of IT

Principal

Dr. K. Srinivas

M .Tech, PhD

25-10-2021
To
29-10-2021

1.Introduction to NumPy,SciPY, Pandas

2.Data Processing Using Arrays

3.NumPY Essentials Arrays amd Vectorized
Computation

4.Plotting and width Pandas

5.Getting Started with Pandas

6.Data Analysis with SciPY

7.Handling Missing Data

8.Hierarchical Indexing

9.Data Aggregation



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DEPARTMENT OF INFORMATION TECHNOLOGY

Day Wise Schedule for Certification Programme on Data Structures through Python
(25-10-2021 to 29-10-2021)

| DAY | Session-1 (9AM-10:30AM) | 10:30AM To 11AM | Session-2 (11AM-12:30PM) | 12:30P M To 1:30PM | Session-3 (1:30PM-3PM) | 3 To 3:15PM | Session-4 (3:15PM-4:30PM) |
|------------|---|-----------------------|--|-----------------------------|---------------------------------------|-------------|---|
| 25-10-2021 | Inauguration Function | Tea Break | Introduction to NumPy, SciPy, Pandas | Lunch Break | Accessing and Preparing Data | Tea Break | Stripping Out Extraneous Information |
| 26-10-2021 | NumPy Essentials Arrays and Vectorized Computation | | Data Processing Using Arrays | | Linear Algebra | | Random Number Generation |
| 27-10-2021 | Getting Started with pandas | | Handling Missing Data | | Hierarchical Indexing | | Reshaping and Pivoting |
| 28-10-2021 | Plotting and Visualization | Tea Break | Plotting Maps | Lunch Break | Data Aggregation | Tea Break | GroupBy Mechanics |
| 29-10-2021 | Data Analysis with SciPy | | Spatial and Clustering Analysis | | Machine Learning with Scikit-learn | | Supervised Learning |

Signature of Coordinator
(Mr.P.Narasimha Rao)

HoD
(Mr.D.Prasad)

Principal
(Dr. K.Srinivas)



DEPARTMENT OF INFORMATION TECHNOLOGY

A REPORT ON ONE WEEK TRAINING PROGRAMME ON DATA STRUCTURES THROUGH PYTHON

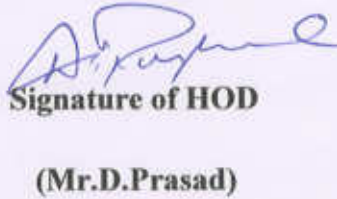
| | |
|---------------------------------|---|
| Event Type | : PLACEMENT TRAINING PROGRAMME |
| Date / Duration | : 25-10-2021 TO 29-10-2021 |
| Resource Person | : Mr. K.Swami Assistant Professor, DVR & Dr. HS MIC College of Technology. |
| Name of Coordinators | : Mr. P.Narasimha Rao Assistant Professor, Department of IT |
| Target Audience | : IV B.Tech VII Semester Students |
| Total no of Participants | : 58 |
| Objective of the event | : This programme is aimed to familiarize students on basic concepts in Python and data structures. Sorting and searching techniques, Binary trees, and Graphs. |
| Topics covered | : sorting and searching techniques, time complexity analysis, Binary trees, and Graphs. |
| Outcome of event | : Students are familiar with <ul style="list-style-type: none">• Enhance data analysis skills: With Python Programming, you can easily analyze and manipulate data, making it easier to extract insights and make informed decisions.• Improve coding skills: Learning Python Programming for data science will give you a foundation in coding that can be useful in a variety of other applications.• Stay relevant in the job market: Python Programming is one of the most widely used languages in data science, so learning it can help keep you competitive in the job market.• Open up new job opportunities: With the increasing demand for data science Professionals, there are many job opportunities available for those with Python Programming skills. |


Description / Report on Event :

Department of Information technology conducted a Training programme on Python Fundamentals for the benefit of IV BTech VII semester IT students. This training is particularly helpful for final year students to seek job opportunities while attending campus placements.

Feedback / Suggestions : Students are participated in enthusiastic manner.


Signature of Coordinator
(Mr.P.Narasimha Rao)


Signature of HOD
(Mr.D.Prasad)


Signature of principal
(Dr. K.Srinivas)