



DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by A.I.C.T.E., New Delhi & Affiliated to JNTUK, Kakinada)

ANAAC Accredited Institute

An ISO 9001:2008; ISO 14001:2004 & OHSAS 18001:2007 Certified Institution
NH-5, Anakapalle – 531002, Visakhapatnam, A.P.

Mobile: +91 9963981111, Website: www.diet.edu.in, E-mail: info@diet.edu.in

CIRCULAR

Anakapalle

Dt: 25-10-2017

Department of Computer Science and Engineering is hereby informed that, in view of the feedback received from III B.Tech. Students of CSE branch regarding skill enhancement and to improve the expertise of students in Python Programming, HOD is advised to depute a faculty from CSE to design and develop a suitable course structure in line with advanced topics of Python Programming for working on real time applications III B.Tech. students of CSE branch with over 30 working hours. Please ensure that this Add-on course helps them to understand the basic structure, Properties, Data types, Strings, Flow control statements, Function, Classes, Exceptions. Make arrangements to deliver the course from next week onwards.

PRINCIPAL

Dadi Institute of Engineering & Technology



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NAAC Accredited Institute & Inclusion under Section 2(f) & 12(B) of the UGC Act
NH-16, Anakapalle, Visakhapatnam, Andhra Pradesh
9963694444, 9963981111, www.diet.edu.in, info@diet.edu.in

Department of Computer Science and Engineering

Presents

A four Week Training Program

on

"Python Programming"

(06-11-2017 to 02-12-2017)

Course Instructor

Dr.L.Prasanna Kumar

Associate Professor, Department of CSE

Venue:

Computer Lab 3, Second Floor, DIET



About the Institute

Dadi Institute of Engineering & Technology is a top ranked Engineering and Management College affiliated to Jawaharlal Nehru Technological University, Kakinada. The Institute is NAAC Accredited, ISO Certified and also associated with many professional bodies in the field of Engineering, Technology and Management. It strives to promote the highest standards among the students and enable them to Build a New World. Dadi Institute of Engineering & Technology is distinctive among institutions of higher learning. Founded in 2006 by Sri Dadi Veerabhadra Rao, an academician and former Minister as the first multicultural and co-educational college in Anakapalle which admits only academically promising students.

About CSE Department

The Department of CSE was established in the year 2006. It offers B.Tech. Program with an initial intake of 120. It also offers M.Tech. Program in Computer Science and Engineering. The department has good infrastructural facilities with full fledged laboratories equipped with adequate hardware and software. The faculty members are actively involved in research and are publishing papers in reputed national and international journals/conferences.

About the course

Students will be able to learn Python Programming as it becomes an essential course to compete with the emerging new technologies and programming skills and knowledge in this world.



Computer Science and Engineering

Python Programming

Course Instructor:

Dr.L.Prasanna Kumar
Associate Professor, CSE Department
Dadi Institute of Engineering & Technology

Duration:

4 Weeks: (06/11/2017 – 02/12/2017)

Overview & Need for the Course:

Since Python is widely growing in its popularity, it is an important tool for anyone getting started Learning Python language provides several job opportunities and promises high growth .

Course Objectives:

- To acquire programming skills in core Python.
- To acquire Object Oriented Skills in Python
- To develop the skill of designing Graphical user Interfaces in Python
- To develop the ability to write database applications in Python

Course Outcomes:

By the end of the course, the student will be able to

- Write, Test and Debug Python Programs
- Use Conditionals and Loops for Python Programs
- Use functions and represent Compound data using Lists, Tuples and Dictionaries
- Use various applications using python

Requirements:

- Python 3.6 and related packages
- Operating system: Linux- Ubuntu 16.04 to 17.10, or Windows 7 to 10, with 2GB RAM (4GB preferable)

Course Contents:

1. Introduction to Python Language.
2. Download & Install Python.
3. Python Language Syntax.
4. Python Keywords and Identifiers.
5. Python Comments.
6. Python Variables.
7. Python Data Types.
8. Python Operators.
9. Case Study: AI Application
10. Programming
11. Final project
12. Conclusion

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
 IV Year – I SEMESTER L T P C
 0 0 3 2

HADOOP & BIGDATA LAB
 List of Experiments – III

1. Implement the following Data structures in Java
 a) Linked Lists b) Stacks c) Queues d) Set e) Map
2. i) Perform setup up and installing Hadoop in its latest operating system: Mandarim, Pseudo distributed, Fully distributed
 ii) Use web based tools to monitor your Hadoop setup.
3. Implement the following file management tasks in Hadoop:
 - Adding files and directories
 - Retrieving files
 - Deleting files

Hint: A typical Hadoop workflow everywhere and copies them into local file utilities.

4. Run a basic Word Count Reduce Paradigm
5. Write a Map Reduce program. Weather sensors collecting globe gather a large volume of data. Analyze this data with Map Reduce
6. Implement MapReduce
7. Install and Run Pig in the project, and filter your data
8. Install and Run Hive in the tables, views, functions, and

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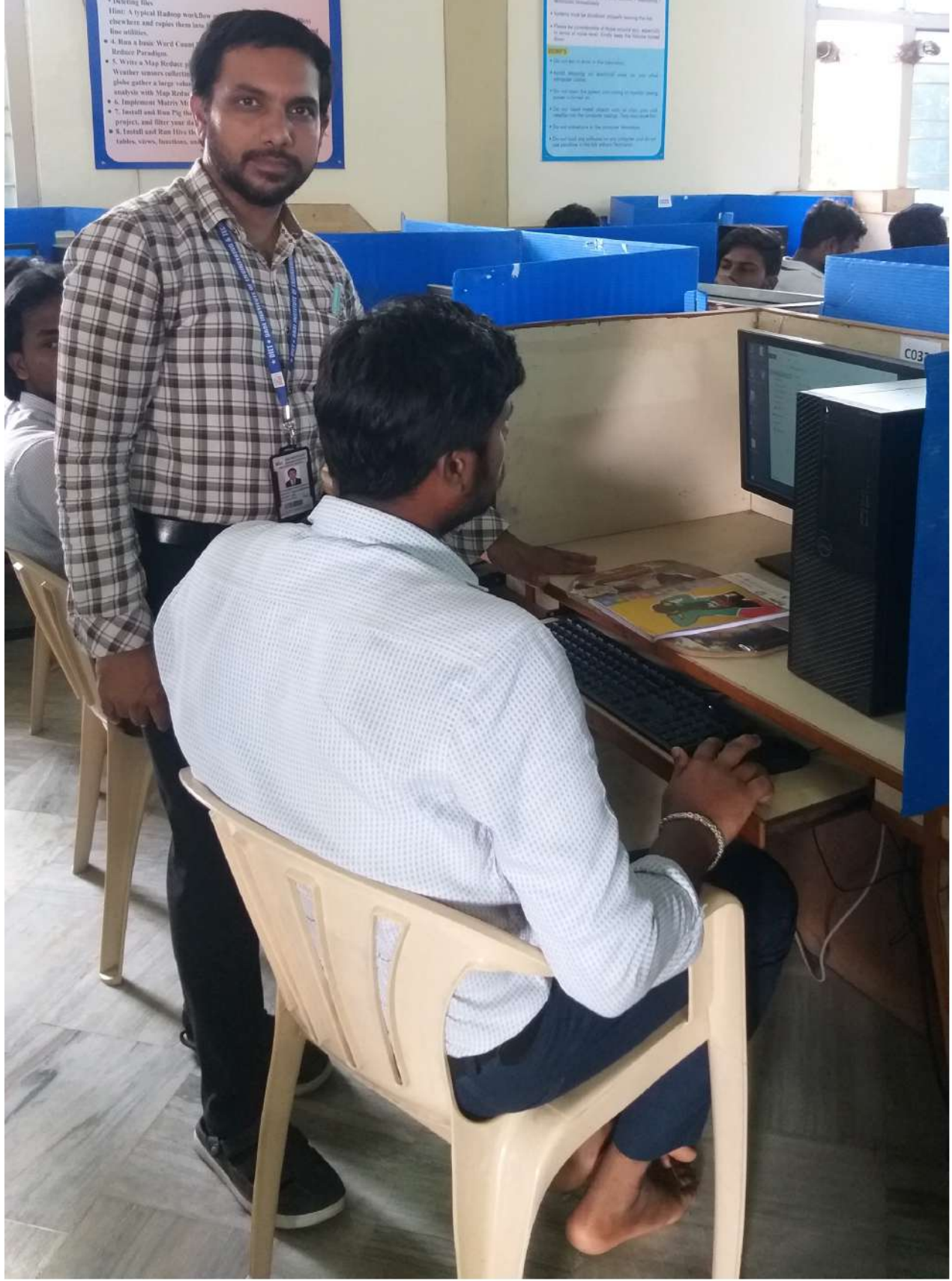
RECURSION OF HADOOP & BIGDATA LAB
 LABORATORY PRACTICE

THEORY

- Recursion is a programming technique in which a function calls itself repeatedly until it reaches a base case that stops the recursion.
- Recursion is used to solve problems that can be broken down into smaller sub-problems of the same type.
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QUESTIONS

1. Write a recursive function to calculate the factorial of a number.
2. Write a recursive function to calculate the sum of the first n natural numbers.
3. Write a recursive function to calculate the Fibonacci sequence.
4. Write a recursive function to calculate the power of a number.
5. Write a recursive function to calculate the length of a string.
6. Write a recursive function to calculate the area of a triangle.
7. Write a recursive function to calculate the area of a square.
8. Write a recursive function to calculate the area of a circle.
9. Write a recursive function to calculate the area of a rectangle.
10. Write a recursive function to calculate the area of a trapezoid.



MATLAB R2014a

HOME PLOTS APPS EDITOR PUBLISH VIEW

File Edit View Run

Current Folder: H:\Instal Softwares\MatLab\bin

Editor - C:\Users\MALLA KISHORE KUMAR\Desktop\Matlab\mytask_2.m

```

1 - clear;
2 - clear all;
3 - close all;
4 - img = imread('boston night.JPG');
5 - % Enter your code below
6 - img1=rgb2gray(img);
7 - imshow(img1);
8 - img2=double(img1);
9 - img3=img2.^1.5;
10 - figure
11 - imshow(img3);
12 - img4=imrotate(img3,-1);
13 - figure
14 - imshow(img4);
15 - img5=cast(img4,'uint8');
16 - %imgAdjusted=img(1:3456,1:5184);

```

Command Window

```

In mytask_2 at 7
Warning: Image is too big to fit on screen; displaying at 13%
> In \initools\private\initSize at 71
In imshow at 282
In mytask_2 at 11
Warning: Image is too big to fit on screen; displaying at 13%
> In \initools\private\initSize at 71
In imshow at 282
In mytask_2 at 14
fx >>

```

| Name | Value | Min | Max |
|------|-------------------|---------|---------|
| img | 3456x5184x3 uint8 | <Too... | <Too... |
| img1 | 3456x5184 uint8 | <Too... | <Too... |
| img2 | 3456x5184 double | <Too... | <Too... |
| img3 | 3456x5184 double | <Too... | <Too... |
| img4 | 3549x5245 double | <Too... | <Too... |
| img5 | 3549x5245 uint8 | <Too... | <Too... |



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COURSE COMPLETION CERTIFICATE

This Certificate is presented to

BODDEDA YAMINI



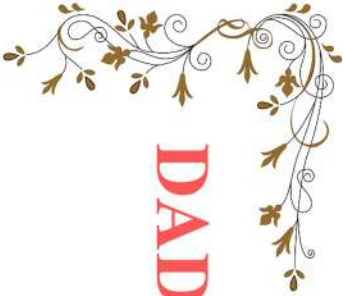
For the successful completion of 4-weeks add-on course on “Python Programming” from Date: 06-11-2017 to 02-12-2017

Dr. L. Prasanna Kumar
Course Instructor

Dr. M. Venugopala Rao
Principal

Sri Dadi Ratnakar
Chairman





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JUJURU SIRREESHA



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KARANAM KUSUMA

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Dr. L. Prasanna Kumar
Course Instructor

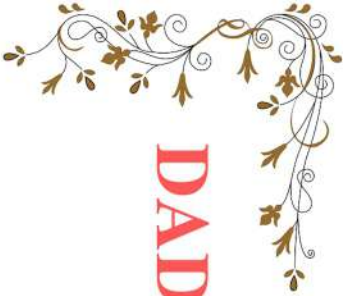


Dr. M. Venugopala Rao
Principal



Sri Dadi Ratnakar
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PILLA ARAVIND



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Course Instructor

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DONGGA PRIYANKA



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STUDENT FEEDBACK FORM

Dear Candidate,

Your feedback is critical for the Institute to ensure that we are meeting your educational needs. We would appreciate if you could take a few minutes to share your opinions with us so that we can serve you better.

Title of the Activity: Programming on Python
Date/Duration: 4 weeks Instructor/Coordinator: Dr. L. Prasanna Kumar

- | | | | | | |
|---|---|---|----------------------------------|----------------------------------|----------------------------------|
| 1. The content was as described in Publicity Material | 1 | 2 | 3 | <input checked="" type="radio"/> | 5 |
| 2. The program was helpful in practical understanding | 1 | 2 | 3 | 4 | <input checked="" type="radio"/> |
| 3. I will recommend this course/workshop program to relevant conservators across our campus | 1 | 2 | 3 | <input checked="" type="radio"/> | 5 |
| 4. The program was well placed within allotted time | 1 | 2 | <input checked="" type="radio"/> | 4 | 5 |
| 5. The instructor was an effective communicator | 1 | 2 | 3 | <input checked="" type="radio"/> | 5 |

Feedback/Suggestions

Very Useful Session

Please return this form to the Course Instructor/Organizer/Coordinator at the end of the workshop/add-on course/Training Program



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STUDENT FEEDBACK FORM

Dear Candidate,

Your feedback is critical for the Institute to ensure that we are meeting your educational needs. We would appreciate if you could take a few minutes to share your opinions with us so that we can serve you better.

Title of the Activity: Training program on python programming
Date/Duration: 4 weeks Instructor/Coordinator: Dr. L. Prasanna Kumar

- | | | | | | |
|---|---|---|----------------------------------|----------------------------------|----------------------------------|
| 1. The content was as described in Publicity Material | 1 | 2 | <input checked="" type="radio"/> | 4 | 5 |
| 2. The program was helpful in practical understanding | 1 | 2 | 3 | <input checked="" type="radio"/> | 5 |
| 3. I will recommend this course/workshop program to relevant conservators across our campus | 1 | 2 | 3 | 4 | <input checked="" type="radio"/> |
| 4. The program was well placed within allotted time | 1 | 2 | 3 | <input checked="" type="radio"/> | 5 |
| 5. The instructor was an effective communicator | 1 | 2 | 3 | <input checked="" type="radio"/> | 5 |

Feedback/Suggestions

Improved my technical skills

Please return this form to the Course Instructor/Organizer/Coordinator at the end of the workshop/add-on course/Training Program