

**KKR&KSR Institute of Technology and Sciences
Vinjanampadu, Guntur, Andhra Pradesh-522017**

Approved by AICTE, New Delhi and Permanent Affiliation from JNTUK, Kakinada
Accredited with "A" Grade by NAAC & NBA Accreditation Status for 4 UG (CSE, ECE, EEE, ME) Programs

**A Three Days Workshop on
Advanced Python
From 17th February to 19th February 2020**

By

**Ms.Shameemunnisa, M SriLalitha, D Sai Ram, I Poojitha, K Keerthi and
T Muneiah, Trainer cum developer APSSDC**

About Resource Persons:

1. Miss. Shameemunnisa

Trainer Cum Developer

APSSDC

Email : shameemunnisa@apssdc.in

2. M

SriLalithaTrainer

Cum Developer

APSSDC

Email : srilalitha.m@apssdc.in

3. D SaiRam

Trainer Cum Developer

APSSDC

Email : sairam.d@apssdc.in

4. IPoojitha

Trainer Cum Developer

APSSDC

Email : poojitha.i@apssdc.in

5. KKeerthi

Trainer Cum Developer

APSSDC

Email : k.keerthi@apssdc.in

6. TMuneiah

Trainer Cum Developer

APSSDC

Email : muneiah.t@apssdc.in

About APSSDC:

The **Government of Andhra Pradesh** has a vision to be among the three best states in India by 2022 and to achieve the status of a developed state by 2029. To achieve this goal, the State has adopted a **mission-mode approach** and has created a '**Knowledge and Skills Mission**' along with **six other missions**. This mission will look into the manpower requirements of all other missions. Towards this, the Government of Andhra Pradesh has created a separate Department of Skill Development, Entrepreneurship and Innovation, to provide the thrust to skilling in the state and **Andhra Pradesh State Skill Development Corporation (APSSDC)** has been established as the implementing arm and spearheading the training skilling initiatives in the state.

Vision of APSSDC:

The Government of Andhra Pradesh has the vision (Swarna Andhra Vision 2029) to make Andhra Pradesh among the three best states in India by 2022 when India celebrates its 75th year of independence and to achieve the status of a fully developed state by 2029.

Mission of APSSDC:

To target 20 million people in AP in next 15 years towards skilling and entrepreneurship to meet skilled human power demands of all Missions and shape AP as the skilled-workforce and knowledge hub for the world

1. Objectives of the Event:

This program aims at providing an opportunity for participants to enrich their knowledge and skill in developing various solutions for solving engineering problems in the society. This program serves as a platform for research scholars, faculty, engineers and students to interact on python language.

The workshop is designed to provide Basic knowledge of Python. Python programming is intended for software engineers, system analysts, program managers and user support personnel who wish to learn the Python programming language.

This Python for developers training course leads the students from the basics of writing and running Python scripts to more advanced features such as file operations, regular expressions, working with System Programming (pipes, threads, forks etc.), Graph Theory (pygraph, Networkx etc), Polynomial manipulation using python, Linguistics (FSM, Turing machines etc), Numerical Computations with Python, Creating Musical Scores With Python, Databases with Python.

Python Programming Training Objectives

- Process text using regular expressions.
- Master **Python's** object-oriented features such as state, class, objects and inheritance.
- Leverage OS services.
- Implement GUI for your **Python** application.
- Create modules to promote code-once-use-many-times practice.

2. Venue of the Event:

The event is organized in **Computer Labs** of KKR & KSR Institute of Technology and Sciences, Vinjanampadu, Guntur, Andhra Pradesh.

3. **Date & Time of the Event:** The Event is organized from 17th to 19th February 2020

4. **No. of students participated:** 72

5. **No. of faculties participated:** Nil

6. Event photographs.

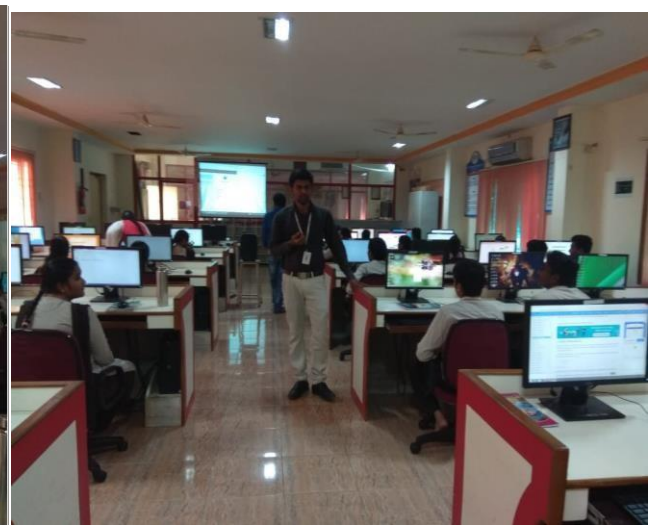
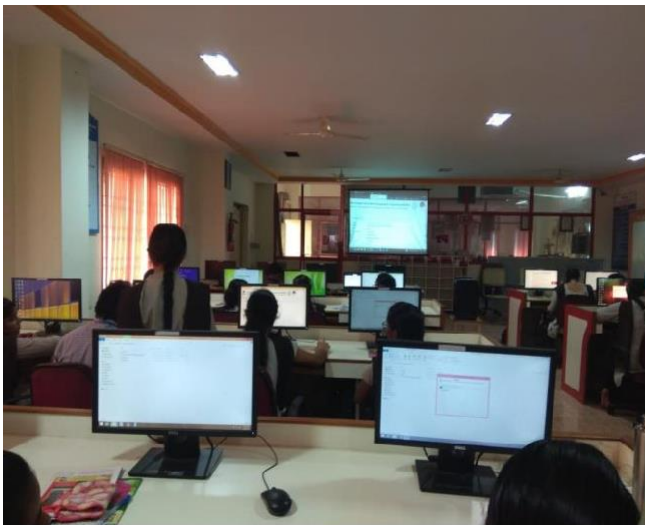
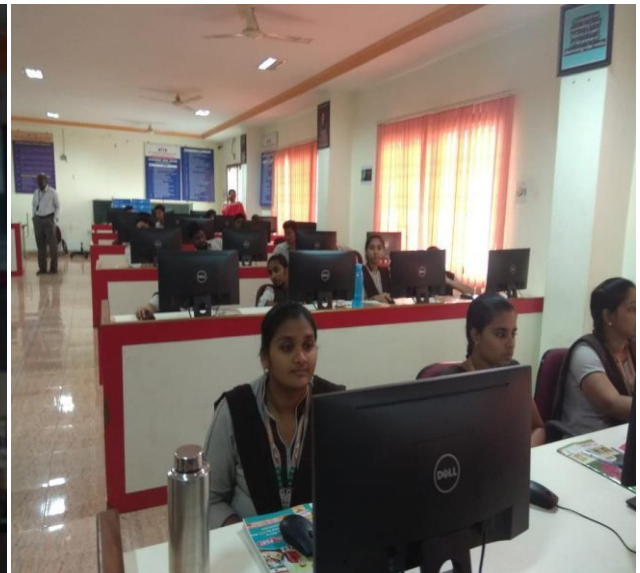
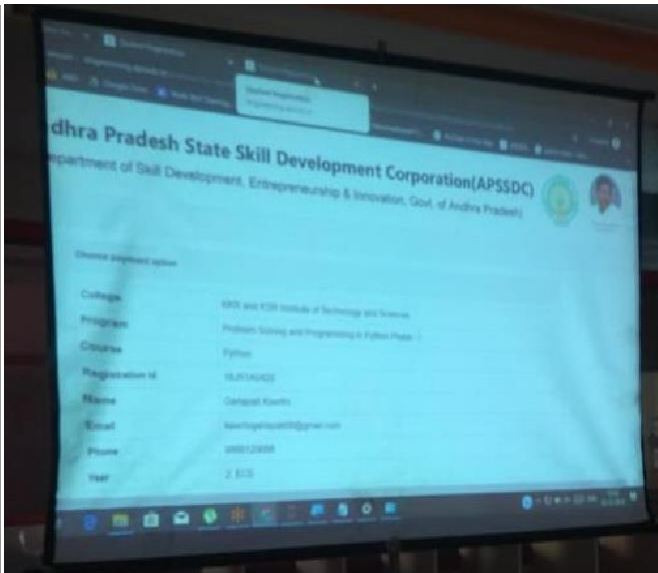
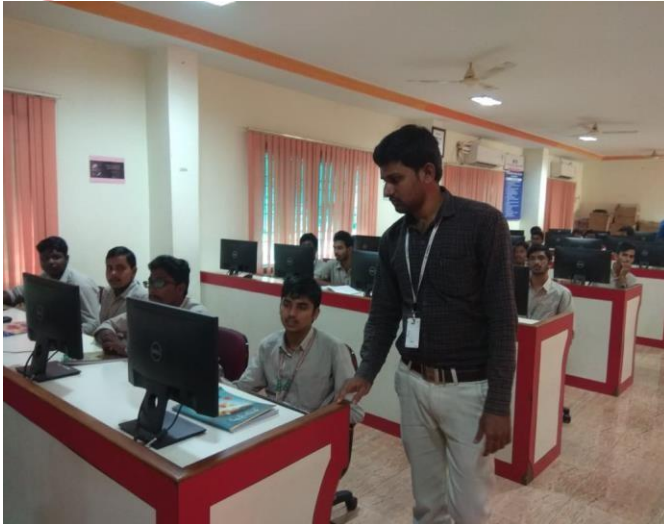


KITS *A Three Day Work Shop*
on
Advanced Python

In Association with
Andhra Pradesh State Skill Development Corporation
(APSSDC)
17th - 19th February 2020
Organized by
Department of Electronics & Communication Engineering

KITS
**KKR & KSR INSTITUTE OF
TECHNOLOGY AND SCIENCES**
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Accredited by NAAC with 'A' grade/Accredited by NBA
VINJANAMPADU, GUNTUR, ANDHRA PRADESH - 522017.

Problem Solving and Programming in Python Phase - I	
Timings : 9:00 AM - 4:45 PM - 6 hours	
DAY 1	
Hour	Topic name
9:00 AM - 10:45 AM	Inauguration, Registrations, Introduction
11:00 AM - 12:30 PM	Literate Programming Jupyter Notebook Environment
1:30 PM - 2:30 PM	Markdown format for documentation
2:30 PM - 4:45 PM	Python basics
DAY 2	
Hour	Topic name
9:00 AM - 10:45 AM	String Slicing, functions with examples
11:00 AM - 12:30 PM	Python Functions
1:30 PM - 2:30 PM	Conditional Statements Iteration
2:30 PM - 4:45 PM	Lists
DAY 3	
Hour	Topic name
9:00 AM - 10:45 AM	Tuples, Sets
11:00 AM - 12:30 PM	Dictionaries
1:30 PM - 2:30 PM	Packages and Modules
2:30 PM - 4:45 PM	Regular Expression



7. Benefits in terms of learning/Skill/Knowledge obtained.

There are many benefits with this work shop which is on Python. It is a language that is remarkably easy to learn, and it can be used as a stepping stone into other programming languages and frameworks.

Python is widely used, including by a number of big companies like Google, Pinterest, Instagram, Disney, Yahoo!, Nokia, IBM, and many others. The Raspberry Pi - which is a mini computer and DIY lover's dream - relies on Python as its main programming language too. Probably wondering why either of these things matter, and that's because once learn Python. Not to mention, since a lot of big companies rely on the language, peoples can make good money as a Pythondeveloper.

Other benefits include:

- Python can be used to develop prototypes, and quickly because it is so easy to work with and read.
- Most automation, data mining, and big data platforms rely on Python. This is because it is the ideal language to work with for general purposed tasks.
- Python allows for a more productive coding environment than massive languages like C# and Java. Experienced coders tend to stay more organized and productive when working with Python, as well.
- Python is easy to read, even if you're not a skilled programmer. Anyone can begin working with the language, all it takes is a bit of patience and a lot of practice. Plus, this makes it an ideal candidate for use among multi-programmer and large development teams.
- Python powers Django, a complete and open source web application framework. Frameworks - like Ruby on Rails - can be used to simplify the development process.
- It has a massive support base thanks to the fact that it is open source and community developed. Millions of like-minded developers work with the language on a daily basis and continue to improve core functionality. The latest version of Python continues to receive enhancements and updates as time progresses.

8. One Participant Feedback:

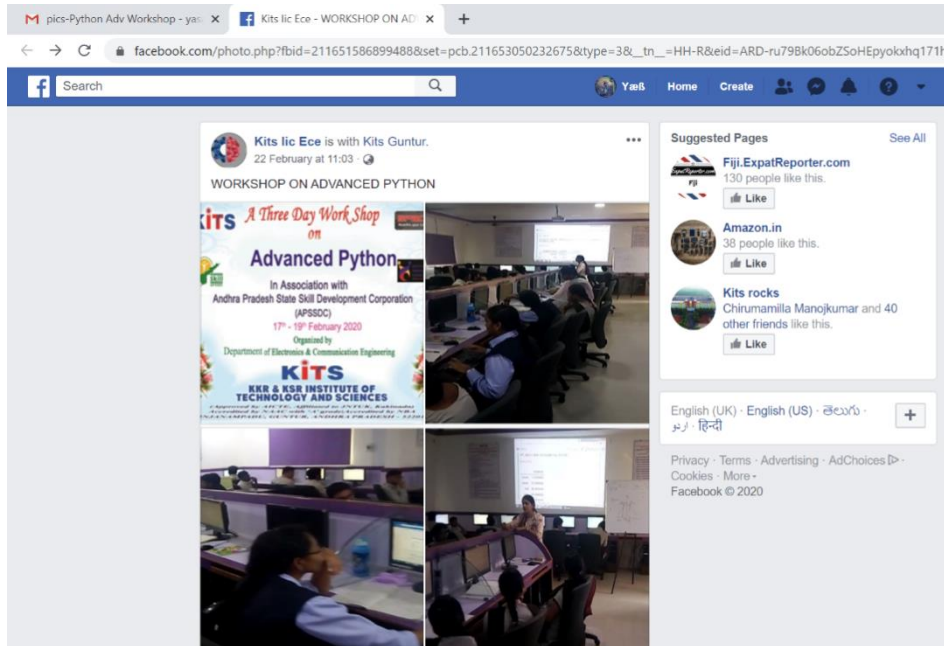
I am **R.Sravika**, studying 2ndB.Tech ECE department in KKR &KSR Institute of Technology and Sciences. I have attended the three days workshop on “**Advanced Python**” First of all I want to thank my college management who provided such facility for all of us to learn and experience these workshops. In this regard my sincere thanks to AICTE-MHRD-IIC, who have been conducting such type of events for the student nourishment. I attended the workshop from 17th to 19th February 2020. I learn the following key concepts from the workshop conducted on Internet of Things(IOT)

Key topics

- Introduction and String Formatting InPython
- Sorting InPython
- Python ListComprehension
- Arrays InPython
- Socket Programming In Python
- List ComprehensionsPython
- PythonRegex
- Matplotlib InPython
- If Statement InPython
- Dictionary InPython
- Object InPython
- PythonOverloading
- Reverse Number InPython
- Fibonacci Series InPython
- PythonKeywords
- PythonSets
- Bubble Sort InPython
- Heap Sort In Python
- Python DataTypes
- Recursive Function InPython
- Do While Loop In Python
- Multidimensional Array InPython
- Python VariableTypes
- Comments InPython
- PythonFeatures
- PythonVariables
- Python DatabaseConnection
- While Loop InPython
- Destructor InPython
- Best Compiler ForPython
- Python IDE ForWindows
- Pandas.Dropna()
- Math Functions InPython
- Python InfiniteLoop
- Abstract Class InPython

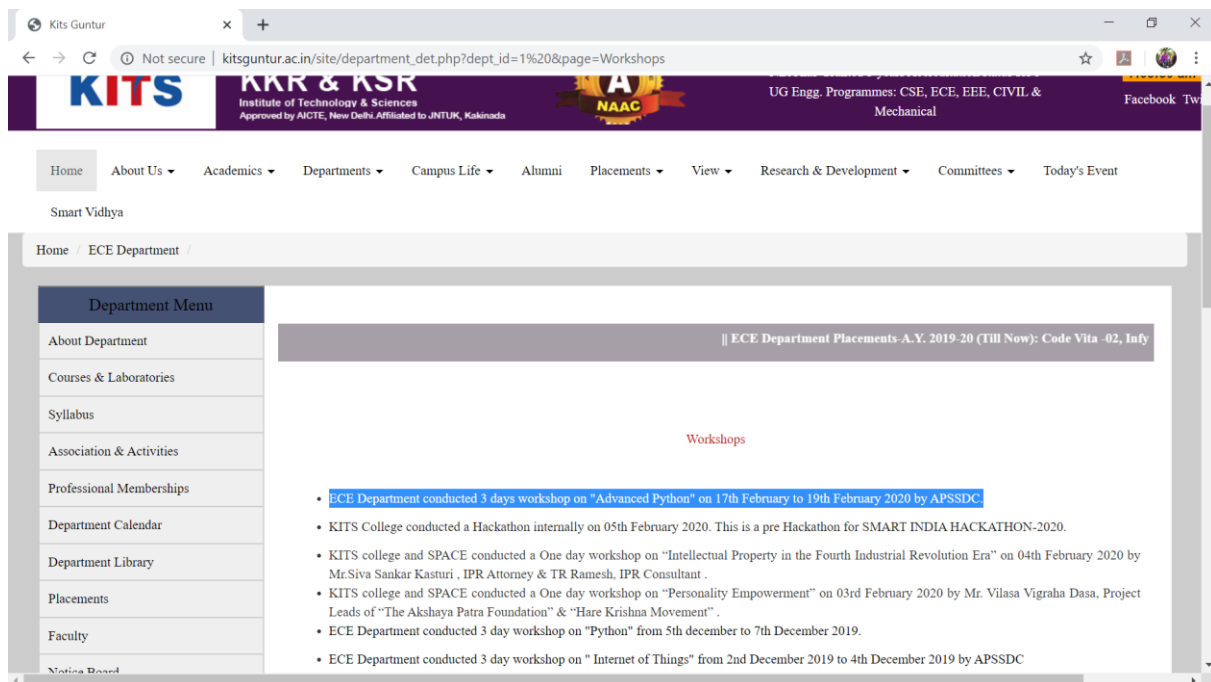
9. Promotion of the Event on the Social Media Website: (Link and

Screenshot):https://www.facebook.com/photo.php?fbid=211651586899488&set=pcb.211653050232675&type=3&_tn_=HH-R&eid=ARD-ru79Bk06obZSoHEpyokxhq171h3_TRIKgLLBSUT5yFxsFcfCyGVsisoZUqrijhZOk4mvQxgavLzLM



10. Promotion of the Event on the University/college Website :(Link and

Screenshot)http://kitsguntur.ac.in/site/department_det.php?dept_id=1%20&page=Workshops



11. 1-2 minutes video of the event (Drive Link Only):

https://drive.google.com/open?id=108bMpxpwnFwIWPG_oPW-xor7mdLTuDA

12. **Expenditure Amount (If any):RS.56,000**

13. **Remarks:** The workshop is organized smoothly with practical orientation.

14. **Experiences and Output of the Session**

All ECE Department 2nd Year B.Tech students are attended the workshop by **Ms.Shameemunnisa, M SriLalitha, D Sai Ram, I Poojitha, K Keerthi and T Muneiah, Trainer cum developer APSSDC** on “Python Basics” from 5th to 7th December 2019, conducted by KKR & KSR Institute of Technology and Sciences in association with MHRD-IIC.

Outcomes of the Session

Python is one of the most important languages in the world of computer programming. This is because of its widespread application in the fields of Machine Learning, Data Science, and Data Mining. KITS in association with MHRD is proudly conducted a three days workshop on Python. The outcome of this workshop is to enhance the knowledge of students and faculty in the field of Python Programming. This workshop will help the students and faculties to learn Python in industry perspective and make them to do real world web applications.

Ms.Shameemunnisa, M SriLalitha, D Sai Ram, I Poojitha, K Keerthi and T Muneiah, Trainer cum developer APSSDC as resource persons a workshop on “Python Basics” is organized. The session is Very useful and informative. **Ms.Shameemunnisa, M SriLalitha, D Sai Ram, I Poojitha, K Keerthi and T Muneiah** explained very clear about basics and involved in practical examples. This workshop is very useful to understand current research trends and we want to learn more about this research. So it is better to extend this session. They explained the importance of innovation and projects. Thank you very much to the management and MHRD-IIC for giving the opportunity.