




Activity Report

Name of The Activity : Student development workshop on Python.			
Category of activity		Co-curricular	
Date:	23.11.2020 to 28.11.2020	Participants profile:	SE Electrical Students
Name of Co-ordinator (S)	1. Mr.R.V.Patil 2. Ms.C.N.Panat		
Guest/ Experts (If any)	By Spoken Tutorial IIT Bombay		
Objective for conducting activity	<ul style="list-style-type: none">➤ To get knowledge about high level programming.➤ To get knowledge about how to develop different web applications.➤ About getting knowledge about how to develop different games.➤ To get knowledge about how to develop different applications.		
Methodology	Through online video lectures		
Out Come	<ul style="list-style-type: none">➤ Students are able to develop GUI applications using python.➤ Students are able to develop Web applications using Python.➤ Students get knowledge about how to develop website.➤ By using python workshop high level programming knowledge will get		

Photos:


IQAC coordinator




PR/Principal
K.C.E.SOCIETY'S
COLLEGE OF ENGG. &
MANAGEMENT, JALGAON



Khandesh College Education Society's
College of Engineering & Management,
Jalgaon

(NAAC Accredited)

(Approved by AICTE, New Delhi, Affiliated to Dr. Babasaheb Ambedkar
Technological University, Lonere and
Recognized by Government of Maharashtra)

Electrical Engineering Department

In Association with

"Spoken Tutorial Project"
Indian Institute of Technology, Bombay.

Organizes

**One Week National Level Online
Student Development Program**

On

"Python"

23-NOV- 2020 to 28-NOV- 2020



Spoken Tutorial

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President
K. C.E. Society, Jalgaon

PATRON

Dr. Kantilal P. Rane
Principal
KCES's COEM, Jalgaon.

CONVENER

Mr. Kalpesh M. Mahajan
HOD, Electrical Department
KCES's COEM, Jalgaon.

Mrs. Vidya Kadam
Spoken Tutorial Training Manager
Spoken Tutorial Project IIT, Bombay.

CO-ORDINATORS

Mr. Avinash-Y. Surywanshi
Asst. Prof. Computer Department
Mob. No. 9370679493

Mr. Rahul V. Patil
Asst. Prof. Electrical Department
Mob. No. 7350925072



Mr. Rajesh R. Waghulde
Prof. Electrical Department

ADVISORY COMMITTEE:

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8	Prof. Sushant S. Sananse	Diploma Coordinator
9	Prof. Rahul R. Patel	FDP Cell Coordinator

HOW TO APPLY?

Participant should register on the following link. The registration link is open till 20 Nov 2020. Participants will be selected on a First Come First Served Basis. Limited seats are available for the said workshop. E-Certificate will be provided after successful completion the workshop.

Last Date of Registration: 20 NOV 2020 (Friday)

Registration Link:

<https://forms.gle/rWfKp9ToPzWFPvL87>



The College of Engineering and Management, Jalgaon was established in year 2001, approved by AICTE, New Delhi & affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere, we are Khandesh College Education Society's brain child, an institution with a vigorous past, a dynamic present, and brilliant future.

We offer a world of opportunities to students with modern educational philosophy and experienced faculty members. Our institution includes strong engineering foundation design to prepare engineers with a broad base of technical knowledge and personality.

Please visit <https://coem.kces.in/> for more details.

ABOUT SPOKEN TUTORIAL

Spoken Tutorial is a multi-award winning educational content portal: Here one can learn various Free and Open Source Software all by oneself. Our self-paced, multi-lingual courses ensure that anybody with a computer and a desire for learning can learn from any place, at any time and in a language of their choice. Please Visit <https://spoken-tutorial.org> for more details.

COVID-19 Pandemic demands Students to learn how to use online platforms, adapt new learning methods, maintain student engagement and find new ways to evaluate and Python is a open source programming software. Python is a general purpose and high level programming language. You can use Python for developing desktop GUI applications, websites and web applications.

For high level programming python software is used. It provides core common programming tasks.

ELIGIBILITY

1. Students from any University, of Degree /Diploma levels, are eligible to participate.
2. All the Participants are required to fill up online registration form before the deadlines.
3. The Spoken Tutorial Project team conducts online exam and gives certificate to those who pass (by earning min.40% marks) the online test.
4. Participants should upload the proof of payment while registering through Google Forms.



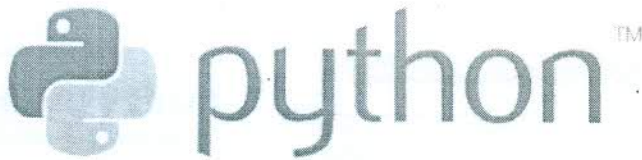
ABOUT COURSE

Python supports cross-platform systems which makes building applications with the more convenient. Some of the globally known applications such as YouTube, BitTorrent, DropBox, etc. use Python to achieve their functionality. Python can be used to make web-applications at a rapid rate. Why is that? It is because of the frameworks Python uses to create these applications. There is common-backend logic that goes into making these frameworks and a number of libraries that can help integrate protocols such as HTTPS, FTP, SSL etc. and even help in the processing of JSON, XML, E-Mail and so much more.

Python is also used in the development of interactive games. There are libraries such as PySoy which is a 3D game engine supporting Python 3, PyGame which provides functionality and a library for game development. Games such as Civilization-IV, Disney's Toontown Online, Vega Strike etc. have been built using Python..

IMPORTANT INSTRUCTIONS:

1. Resource Material Available:
https://spoken-tutorial.org/tutorial-search/?search_foss=Python+3.4.3&search_language=English
2. Contact Hours: 11:00 am To 5:00pm.



What is Python?

Python is a general purpose, high level, remarkably powerful dynamic programming language used in a wide variety of application domains.

Why Python?

- Easy to read and learn
 - Free and Open Source
 - Useful for scientific computing
 - Powerful interactive interpreter
 - Extensive scientific libraries
 - Well documented

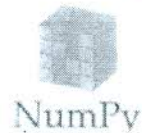
Where can you use Python?

- Numeric and Symbolic computation
- 2D/3D Plotting
- User interfaces
- Parallel computing
- Machine Learning and Image Processing
- Game development
- Web development
- Much more...

Who uses Python?

- Google
- Yahoo
- Walt Disney
- NASA
- IBM
- YouTube
- nVIDIA
- Software - Blender, Motion Builder, Cinema 4D, etc.
- Games - Battle field 2 by EA sports, Crystal space 3D, etc.

Python is one of the most popular programming languages today, and therefore has been included in the CBSE curriculum. It easily performs tasks that proprietary tools like Matlab and Mathematica offer. Today leading companies are using Python extensively, hence there are better job opportunities. Learn Python, and grab the Opportunity!



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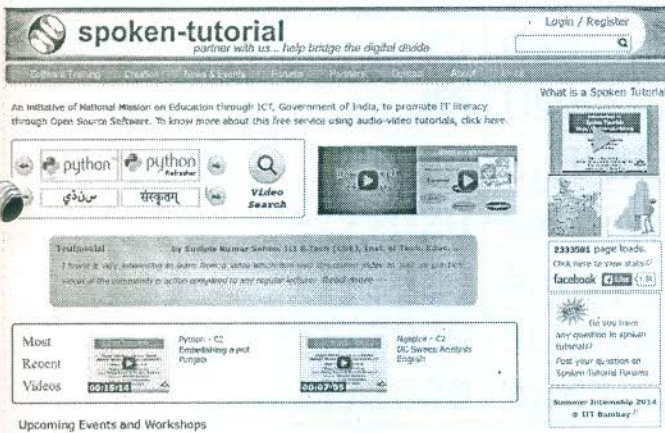
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How can you learn Python

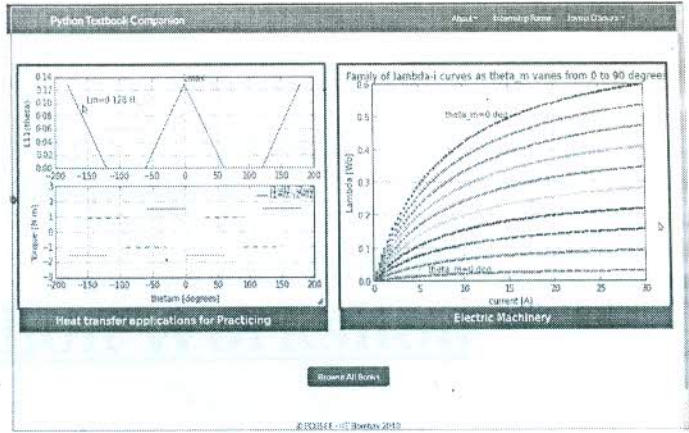
- **Spoken Tutorial** - The FOSSEE project has created a series of Spoken Tutorials on Python. These are available for learning, on the Spoken Tutorial website, free of cost. You can access these tutorials from this link python.fossee.in/spoken-tutorials



Spoken Tutorial website

- **Textbook Companion Internship** - Learn Python in a practical way by contributing to the Python Textbook Companion Internship. It aims to create Companions by coding solved examples from Standard textbooks, using Python. Participate and earn attractive honoarium and Certificate of Internship from FOSSEE, IIT Bombay! For more details, please visit: python.fossee.in/textbook-companion-project

Completed Book : Approx 453 books
Under Progress : Approx 113 books



Python Textbook Companion website

- **SELF Workshops** - The Spoken Tutorial Team conducts workshops on Python. These are completely free of cost, and are conducted without the need of any domain expert. Learn Python and obtain a certificate from Spoken Tutorial Project, IIT Bombay, upon successful completion of the post-workshop evaluation test. Please visit: python.fossee.in/spoken-tutorials

About us

Website:

<http://python.fossee.in>

Contact us

General help & Queries:

info@fossee.in
python@fossee.in



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COLLEGE OF ENGINEERING & MANAGEMENT, JALGAON - 425001
Electrical Engineering Department
Academic Year 2020-21 SEM - I

DATE: 21/11/2020

Schedule for Python Workshop


Sr.no.	Date	Topic
1	23/11/2020	Getting started with ipython
2	23/11/2020	Using plot command interactively
3	23/11/2020	Embellishing a plot
4	23/11/2020	Saving plots
5	23/11/2020	Multiple plots
6	23/11/2020	Subplots
7	23/11/2020	Additional features of ipython
8	24/11/2020	Loading data from files
9	24/11/2020	Plotting data
10	24/11/2020	Other types of plots
11	24/11/2020	Plotting charts
12	24/11/2020	Getting started with lists
13	24/11/2020	Getting started with for
14	24/11/2020	Getting started with strings
15	25/11/2020	Getting started with files
16	25/11/2020	Parsing data
17	25/11/2020	Statistics
18	25/11/2020	Getting started with arrays
19	25/11/2020	Accessing parts of arrays
20	25/11/2020	Image manipulation with arrays
21	25/11/2020	Basic Matrix operations
22	26/11/2020	Advanced Matrix operations
23	26/11/2020	Least square fits
24	26/11/2020	Basic datatypes and operators



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25	26/11/2020	Sequence data types
26	26/11/2020	Input- Output
27	26/11/2020	Conditional statements
28	26/11/2020	Loops
29	27/11/2020	Manipulating lists
30	27/11/2020	Manipulating strings
31	27/11/2020	Getting started with tuples
32	27/11/2020	Dictionaries
33	27/11/2020	Sets in python
34	27/11/2020	Getting started with functions
35	28/11/2020	Advanced features of functions
36	28/11/2020	Using python modules
37	28/11/2020	Writing python scripts
38	28/11/2020	Testing and debugging
39	28/11/2020	Handling errors and exceptions




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 HOD
 Mr. Kalpesh M. Mahajan

KCES's COLLEGE OF ENGINEERING AND MANAGEMENT JALGAON

A.Y 2020-21

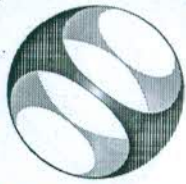
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Participant List

Class: S.Y. B.Tech (Electrical Engg.)

Sr. No.	Name of student	Email ID	Gender
1	KOMAL DHANGAR	komaldhangar2001@gmail.com	Female
2	HARSHADA LOKHANDE	harshadalokhande2752001@gmail.com	Female
3	BHUSHAN CHAUDHARI	chaudharibhushan862001@gmail.com	Male
4	SIDDHARTA MORE	moresidharth8@gmail.com	Male
5	VISHAL SONAWANE	vdsonawane@gmail.com	Male
6	PRATIKSHA PAWARA	pratiksha023@gmail.com	Female
7	RAVSAHEB MALI	maliravsahab0871@gmail.com	Male
8	LOKESH PATIL	lokeshpatil805@gmail.com	Male
9	RUSHIKESH PATIL	rushikeshpatil02062001@gmail.com	Male
10	MUKESH PATIL	mp523675@gmail.com	Male
11	PRERANA NERPAGAR	nerpagarprerana@gmail.com	Female
12	HARISH WANI	waniharish448@gmail.com	Male
13	NIKHIL PAWAR	nikhilbpawar@gmail.com	Male
14	PRADIP PATIL	pradip1998@gmail.com	Male
15	KIRAN MAHAJAN	mahajankiran01@gmail.com	Male
16	RUSHIKESH PAWAR	rushikeshpawar@gmail.com	Male
17	TEJAS BAMHANDE	tejaspb2000@gmail.com	Male
18	ROHAN DESALE	deslerohan7@gmail.com	Male
19	DURGESH PATIL	durgeshmpatil@gmail.com	Male
20	CHHAYA SONAWANE	sonawanechhaya2001@gmail.com	Female
21	GAURAV PATIL	gauravp2001@gmail.com	Male





Spoken Tutorial
Project at
IIT Bombay

Certificate of Participation

This is to certify that **KOMAL DHANGAR** participated in the **Python 3.4.3** training organized at **KHANDESH COLLEGE EDUCATION SOCIETY'S COLLEGE OF ENGINEERING AND MANAGEMENT, JALGAON** in **July 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Python 3.4.3** were covered in the training.

August 30th 2020

Prof. Kannan M Moudgalya
IIT Bombay



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Certificate of Participation

This is to certify that **LOKESH PATIL** participated in the **Python 3.4.3** training organized at **KHANDESH COLLEGE EDUCATION SOCIETY'S COLLEGE OF ENGINEERING AND MANAGEMENT, JALGAON** in **July 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Python 3.4.3** were covered in the training.

August 30th 2020

A handwritten signature in black ink, appearing to read 'Kannan Moudgalya'.

Prof. Kannan M Moudgalya
IIT Bombay