

## ABOUT THE WORKSHOP

Recently Python is the most preferred programming language as it supports multiple programming paradigms, including object-oriented, imperative programming styles. Python is known for its ease of developing your own tools and as well as for developing secured websites and programs.

It also has tons of libraries that help's throughout the journey in the field of programming. Hence, the aim of this workshop is to provide an excellent platform to learn with Python for solving a problem instead of struggling with implementation details.

## SCOPE OF THE WORKSHOP

- **An over view of Python, setting of python on the computer.**
- **A brief discussion on writing the program using python and Data Analytics**
- **Hands-on practice of python and Data analytics algorithm & programming**

## TARGET PARTICIPANTS

Students, researchers and faculty members of engineering who are interested in learning new tools and programming language and Python fits that bill.



## ABOUT PMEC

Parala Maharaja Engineering College (P.M.E.C), Berhampur came into existence in the year 2009 as a constituent college of Biju Pattnaik University of Technology (BPUT), Odisha. This college is one of the premier technical institute in the state and is funded by the government of Odisha. The main objective of the institution is to produce quality technocrats in various streams. Government of Odisha has recognized this institution as a leading institution of repute and has a plan to develop it as a centre of excellence under plan funding.

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Workshop on

***Python and data analytic***

***26<sup>th</sup>-30<sup>th</sup> August 2019***



Convener:

**Mrs. Mitali Sinha, CSE**

**Mr. Rashmi Ranjan Sahoo, CSE**

Organized by:

**AGILE Society,**

**Department of Computer Science  
and Engineering**

**Parala Maharaja Engineering College**

**Berhampur, Odisha**

# Workshop on PYTHON and Data Analytics

Venue: Reference Section PMEC, Berhampur, Odisha

Date : 26<sup>th</sup> – 30<sup>th</sup> August 2019

Timings	10.00 – 11.15	11.15 – 11.45	11.45 – 13.00	13.00 – 14.00	14.00 – 15.00	15.00 – 15.15	15.15 – 16.15
Topics	Morning Session *	Break	Morning Session Continued	Break	Afternoon Session	Snacks/Tea break	Afternoon Session Continued

\*For Day 1 the morning session will be start at 11:00 Hrs.

BASIC	Session	Day 1	Day 2	Day 3	Day 4	Day 5
Basic Topics	Morning	<ul style="list-style-type: none"> <li>PANDAS Introduction</li> <li>PANDAS Series</li> <li>PANDAS Data frame</li> <li>Merging Data frame</li> <li>Practice</li> <li>NumPy Introduction</li> <li>NumPy Operation</li> <li>NumPy Array</li> <li>Array Manipulate</li> <li>Slicing Array</li> <li>Practice</li> </ul>	<ul style="list-style-type: none"> <li>Data Science Introduction</li> <li>Application of DS</li> <li>Machine Learning</li> <li>Types Of ML</li> <li>Regression</li> <li>Classification</li> <li>Practice</li> </ul>	<ul style="list-style-type: none"> <li>SVM Intro</li> <li>SVM Algorithm</li> <li>Project on SVM</li> </ul>	<ul style="list-style-type: none"> <li>Deep Learning Intro</li> <li>Application</li> <li>Library</li> <li>Tensor flow</li> <li>practice</li> </ul>	<ul style="list-style-type: none"> <li>Discussion on scope of Machine Learning</li> </ul>
Basic Hands-On Session	Afternoon	<ul style="list-style-type: none"> <li>Matplotlib Introduction</li> <li>Plot Types</li> <li>Plot graphs, Subgraphs</li> <li>Graph Parameter</li> <li>2D plots</li> <li>Practice</li> <li>Seaborn Introduction</li> <li>Plot Types</li> <li>Plot graphs</li> <li>Seaborn Practice</li> <li>Scikit-learn</li> </ul>	<ul style="list-style-type: none"> <li>Linear Regression Introduction</li> <li>Linear Regression Algorithm</li> <li>Plotting</li> <li>Practice</li> <li>Logistic Regression Introduction</li> <li>Logistic Regression Algorithm</li> <li>Practice</li> </ul>	<ul style="list-style-type: none"> <li>Decision Tree Intro</li> <li>Decision Tree Uses</li> <li>Practice</li> <li>K-Means clustering Intro</li> <li>K-Means clustering Uses</li> <li>Practice</li> </ul>	<ul style="list-style-type: none"> <li>Project work Regression</li> <li>Project work classification</li> </ul>	<ul style="list-style-type: none"> <li>Valedictory</li> </ul>