



Anjuman-I-Islam's
M.H.Saboo Siddik Polytechnic
8, M.H.Saboo Siddik Polytechnic Road, Mumbai 400008



**AICTE – ISTE Sponsored Induction/Refresher
Faculty Development Programme On
“Python Programming”
(14th to 19th December 2020)**

Schedule

| Date | Morning Session (10:00 am to 1:00 pm) | Afternoon Session (3:00 pm to 5:00 pm) | Evening Session (6:00 pm to 9:00 pm) |
|------------|---|--|---|
| 14/12/2020 | Introduction & Basics of Python Programming(Part I) <ul style="list-style-type: none">• Features• Building Blocks(Data types, identifiers, keyword, indention, variables, comments, reserved word)• Python Environment Setup• Conditional Statement• Looping• List• Tuples with Tuple Operations | Topic : Hands-on Python* Mr.Rocky Jagtiani (Head Training and Development Suven Consultants & Technology Pvt ltd.) | Moodle Session* |

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|------|--|--|---|
| | <ul style="list-style-type: none"> • Functions(Built In & User Defined) • Basics-I of Python • Dictionaries • Modules • Regular Expressions • Python file input output: Iterable, iterators and their problem solving applications. • Creating classes & object • Inheritance and Composition Classes • Exception Handling: try, except, raise, finally, user defined exception • File Handling <p>Dr.Sandeep S Udmale (Assistant Professor, VJTI)</p> | <p>Topic : Hands-on Python* Mr.Rocky Jagtiani (Head Training and Development Suven Consultants & Technology Pvt ltd.)</p> | <p>Moodle Session*</p> |

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|------------|--|---|---|
| 15/12/2020 | <p>Basics of Python(Part II) & Database Connectivity In Python</p> <ul style="list-style-type: none"> • Lambda Function • Function Ducktyping & Polymorphism • Generators & Iterators ,List Comprehensions • Installing mySql connector • Accessing connector module - using connect, cursor, execute & close function • Reading single and multiple results of query execution, executing different types of statement, executing transaction, understanding exceptions in database connectivity. <p>Dr. Shachi Natu (Assistant Professor, Thadomal Shahani Engineering College)</p> | <p>Topic : Hands-on Python* Mr.Rocky Jagtiani (Head Training and Development Suven Consultants & Technology Pvt ltd.)</p> | <p>Moodle Session*</p> |

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| 16/12/2020 | <p>Python Numpy Dr. Sanjeev Kumar (Associate Professor, IIT Roorkee)</p> | <p>Topic : Hands-on Python* Mr.Rocky Jagtiani (Head Training and Development Suven Consultants & Technology Pvt ltd.)</p> | <p>Moodle Session*</p> |
| | <p>Multithreaded Programming & Network Connectivity using Python</p> <ul style="list-style-type: none"> • Socket Module • Creating Server- Client Programs • Sending Email, Reading from URL • Thread Module, Creating a Thread • Synchronizing Thread, Multithreaded Priority Queue <p>Dr. Zaibunnisa Malik (Principal, M.H.Saboo Siddik Polytechnic)</p> | | |

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|------------|---|---|---|
| 17/12/2020 | <p>GUI Programming in Python(using Tkinter/wxPython/Qt) & Creating the GUI Form and Adding Widgets</p> <ul style="list-style-type: none"> • Introduction to GUI Library. • Events & Bindings, fonts, colors, Drawing on Canvas(line, oval, rectangle etc) • Widgets: Button, Canvas, Checkbutton, Entry,Frame,Label,Listbox, MenuButton, Menu,Message, Radiobutton,Scale, Scrollbar,Text, Toplevel, SpinnedBox, Panned Window, LabelFrame, tkMessageBox, Handling standard attributes and properties of Widgets. <p>Dr. Darshan Ingle (Assistant Professor, Thadomal Shahani Engineering College)</p> | <p>Topic : Hands-on Python* Mr.Rocky Jagtiani (Head Training and Development Suven Consultants & Technology Pvt ltd.)</p> | <p>Moodle Session*</p> |

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|------------|---|---|---|
| 18/12/2020 | <p>Layout Management, Look and Feel Customization & Storing Data in mySQL via our GUI</p> <ul style="list-style-type: none"> • Designing GUI application with proper layout management features • Enhancing Look & Feel of GUI using different appearances of widgets • Connecting to a mySQL database from python, Configuring the mySQL connection, designing the Python GUI database , Using the INSERT command, using the UPDATE command, using the DELETE command, storing and retrieving data from mySQL database. <p>Dr. Amiya Kumar Tripathy (Professor, Don Bosco Institute of Technology)</p> | <p>Topic : Hands-on Python* Mr.Rocky Jagtiani (Head Training and Development Suven Consultants & Technology Pvt ltd.)</p> | <p>Moodle Session*</p> |

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|---|--|---|---|
| 19/12/2020 | Introduction to Data Analysis Dr. Seema Kolkur (Assistant Professor, Thadomal Shahani Engineering College) | Valedictory Session | |
| To be covered during above lab sessions | <p>*Hands on using Python for all above topics</p> <ul style="list-style-type: none"> • Basic Syntax: Variables and Data Types • Functions • File Input and Output • Exception Handling • GUI Programming • Database Connectivity • MySQL and Database Connectivity • Numpy, Pandas Packages | | |
| To be covered during above moodle sessions | <p>* Assignments on Python for all above topics</p> | | |