

ACE Computing Workshops Jan 24 – Apr 24



How to join a workshop

You can simply click on the link at the time of the session <https://qa-learning.webex.com/meet/HRaj> or you can scan the QR code or email ace@qahighereducation.com and request a booking link. You can also go to <https://qahighereducation.com/the-ace-team/> to see when each session is taking place and book. *Schedule a booking if you want to get a reminder 12 hours prior to the session.*

January

Date	Day	Time	Topic
17-Jan	Wednesday	16:30	<p>Let's Rewind and Recap: Summary of the Six "Python for Beginners" Workshops</p> <p>Summary of the 6 workshops conducted in the last cycle, which covered fundamentals, collections, conditionals & loops, functions, file handling and classes & objects.</p>
24-Jan	Wednesday	16:30	<p>Unleashing the Power of Data in Python: Dive into NUMPY</p> <p>Unlock the potential of NumPy- Python's essential library for numerical computing with hands on exercises in this beginner friendly workshop.</p>
31-Jan	Wednesday	16:30	<p>Unleashing the Power of Data in Python: Data Wrangling with Playful Pandas</p> <p>Gain hands on skills for efficient data manipulation with Python's essential library-Pandas.</p>

February

Date	Day	Time	Topic
09-Feb	Friday	16:30	<p>Unleashing the Power of Data in Python: Art of Data Visualization with Matplotlib</p> <p>Learn hands on techniques to create compelling visualizations and bring data to life.</p>
20-Feb	Tuesday	16:30	<p>Programming Concepts: Flow Charts and Pseudocodes</p> <p>Programming is developed through good pre-code planning and organization. This is assisted using pseudocode and flowcharts. This intermediate level workshop would help you to understand the basics of pseudocode and flowcharts.</p>

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February

Date	Day	Time	Topic
21-Feb	Wednesday	13:30	Mastering Problem Solving through Computational Thinking A logical approach to problem solving. In this intermediate level workshop, we will look into various elements of Computational Thinking.
28-Feb	Wednesday	16:30	Ignite Your Coding Journey: Python 1 - Variables, Strings, User Inputs and Operators In this intermediate level workshop, learn the basics of programming using the Python Programming Language. We will look into Variables, Strings, User Inputs, Operators & Conditional statements

March

Date	Day	Time	Topic
05-Mar	Tuesday	16:30	Ignite Your Coding Journey: Python 2 - Lists, Tuples, Sets & Dictionaries In this intermediate level workshop, we would look into the essential data structures such as lists, tuples, dictionaries and sets.
08-Mar	Friday	13:30	Ignite Your Coding Journey: Python 3- Decision Making and Iterations In this intermediate level workshop, we would look into decision making which lets you to execute code based on conditions while loops allow repetitive tasks, making Python a versatile choice for dynamic programming.

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March

13-Mar	Wednesday	16:30	<p>Ignite Your Coding Journey: Python 4 – Functions (Inbuilt and User defined)</p> <p>In this intermediate-level workshop, we will explore the power of Python functions, from built-in ones like range(), len(), math(), and matplotlib() to creating your custom functions. Unleash the full potential of code modularity and reusability.</p>
20-Mar	Wednesday	13:30	<p>Ignite Your Coding Journey: Python 5 – File Handling</p> <p>In this intermediate level workshop, we would practice file handling using Python. Detect, read, write and copy a file 📁</p>
27-Mar	Wednesday	13:30	<p>Ignite Your Coding Journey: Python 6 – Classes and Objects</p> <p>In this intermediate – advanced level workshop, we will work on the concept of object-oriented programming, create reusable code with custom data types and unleash the potential of modular programming.</p>