

INDUSTRY READINESS TRAINING (2023 YOP)  
**COURSE TIME TABLE**

**TRACK 1**

**DATA SCIENCE WITH PYTHON - 80 HOURS**

**PART- 1 (40 HRS) - START & END DATE : 13 DEC - 04 JAN**

**TIMINGS: 7.00 - 9.00 PM (2 HOURS DAILY)**

SESSION NO	DAY	DATE	TOPIC	DURATION
1	Mon	13-Dec	Python Basics- 1	2 Hrs
2	Tue	14-Dec	Python Basics- 2	2 Hrs
3	Wed	15-Dec	Python Basics- 3	2 Hrs
4	Thu	16-Dec	Python Basics- 4	2 Hrs
5	Fri	17-Dec	Python Basics- 5	2 Hrs
<b>Object Oriented Python</b>				
6	Sat	18-Dec	Intro to OOPS in Python	2 Hrs
7	Mon	20-Dec	Assertion, Decorators	2 Hrs
8	Tue	21-Dec	Generators, Iterators	2 Hrs
<b>Threading in Python</b>				
9	Wed	22-Dec	Creation of threads using threading module	2 Hrs
10	Thu	23-Dec	Execution of threads using threading module	2 Hrs
<b>Database Programming</b>				
11	Fri	24-Dec	Intro to Sqlite	2 Hrs
12	Sat	25-Dec	Connecting to a database (sqlite)	2 Hrs
13	Mon	27-Dec	Sending DML and DDL queries and processing the result from a Python Program	2 Hrs
<b>Basic Numerical Processing</b>				
14	2 Hrs	28-Dec	Introduction to Numpy	2 Hrs
15	2 Hrs	29-Dec	Creation of vectors and matrices	2 Hrs
16	2 Hrs	30-Dec	Matrix manipulation	2 Hrs
<b>Basic Data Analysis</b>				
17	Fri	31-Dec	Pandas data structures – Series and DataFrame	2 Hrs
18	Sat	01-Jan	Data wrangling using pandas Loading a dataset into a dataframe	2 Hrs
19	Mon	03-Jan	Selecting Columns from a dataframe, Selecting Rows from a dataframe	2 Hrs
20	Tue	04-Jan	Adding new data in a dataframe, Deleting data from a dataframe	2 Hrs
<b>TOTAL</b>				<b>40 HRS</b>