## July

TR-104

23 July : **HTML/CSS**

1. Introduction html/css and rules and syntax
2. About Tags and code structure , Image tag, anchor tag
3. Class(span class) and id

# CORE PYTHON

1. Introduction python and syntax
2. List and examples and operations
3. Range of indexes positive and negative
4. Sets and operations on sets using python Practice

24 July : **HTML/CSS**

1. Form validation , Form with fieldset and legend
2. Frames, frameset with rows and columns, IFrames(song and video play)
3. Overlapping

# CORE PYTHON

1. Dictionaries(loop through it, nested, copy etc)
2. Tuples and operations on it
3. Get() function/ math function
4. Range() function
5. Continues and break function Practice

25 July : **HTML/CSS**

1. Pseudoelements
2. Ordered and unordered list
3. Letter spacing and word spacing and visibility

# CORE PYTHON

1. Loops and its types
2. Oops( polymorphism, inheritance, encapsulation,data abstraction) Practice

26 July : **HTML/CSS**

1. Class and id

Give color to link's and four types-Visited, Hover, Active, Link

1. Display image and aligned it
2. Table designed and color it, Table border color

# CORE PYTHON

1. Access specifiers
2. Gui (Tkinter) , run tkinter for create (labels,checkbox,frames,menu,scrollbar,top-level,spinbox,pannedwindow,canvas and arc)

Practice

27 July : Holiday

28 July : Holiday

29 July : **HTML/CSS**

1. Span tag
2. Text-shadow
3. Margin(left, right,top,bottom)
4. Box- sizing
5. Key- frame
6. Gradient( mixture of colors), Draw circle with gradient

# CORE PYTHON

Practice

30 July : **HTML/CSS**

* 1. Cursor
  2. Current color
  3. Media query, Media query for desktop
  4. Overflow(visible,Hidden, Scroll,Auto) Practice

31 July : **HTML/CSS**

1. Transform and transition
2. Image reflection
3. Max- width
4. Box- border, outline border, border image Practice

## August

1.August: Introduction and simple code Variable declaration(html,css) Buttons using onclick

Practice

2 August : Pd clas

3 August : Off

4 August: Off

5 August : Arrays (find position, length)

Array functions(sorting, reverse, push, pop, shift, unshift , delete, filtering(some, every, filter)

Practice

6 August : typeOf and Isarray

Multidimensional array and operations Practice

7 August : Indexof, slice, splice, reduce Array.map, Combine two arrays(concat) Practice

8 August : for loop, for..in() loop, for..of() loop ,forEach() loop Practice

9 August : Doubt Session

10 August : Off

11 August : Off

12 August : Loops and practicals using loops Practice

13 August :Holiday

14 August:Practice

15 August :Independence Day

16 August: Pd class

17 August : Off

18 August : Off

19 August : Holiday (Raksha-Bandhan)

# DJANGO

20 August : Introduction and installation Folders structure

Framework of django

21 August : Superuser administrator

Routing (url.py and add links

22 August: Render html page (create templates, settings.py, views.py, urls.py)

23 August : pd class and doubt session

24 August : Off

25 August : Off

26 August : Call Css and Js and in django Call images in django

27 August : Methods in django (get amd post)

CSRF token in forms

28 August : Model and how to create it in django Update, delete and add new records

29 August : Database and install dbsqlite

Send four values to databases (dbsqlite)

30 August : Doubt Session

31 August : Off

## September

1 September : Off

2 September (Mon): Training guides(settings.py, views.py (contact), models.py(request.post.get),

Forms values comes to views.py and store in Database (create views.py), create admin.py, app.py, urls.py

3 September (Tue): practice

4 September (Wed): Forms values comes to views.py and store in Database (create views.py)

5 September (Thu): Practice

6 September (Fri): Doubt Session

7 September (Sat): Off

8 September (Sun): Off

9 September (Mon): Fetch queries using django

10 September (Tue): Fetch queries using django

11 September (Wed): Practice

12 September (Thu): Practice

13 September (Fri): pd class Doubt Session

14 September (Sat): Off

15 September (Sun): Off

# SQL

16 September (Mon): Introduction databases and sql

Installation of xamp Localhost/phpMyAdmin

17 September (Tue): Basic queries (select, update, insert, delete)

18 September (Wed): Operations on databases like (delete 3rd record,

update records, print all records, print particular record, add new record, insert record)

19 September (Thu): Queries:- Max, min, count,sum, avg

20 September (Fri): Doubt Session

21 September (Sat): Off

22 September (Sun): Off

23 September (Mon): Orders (Ascending and descending)

24 September (Tue): Groups by

Like command

25 September (Wed): Practice

26 September (Thu): Practice

27 September (Fri): Doubt Session

28 September (Sat): Off

29 September (Sun): Off

# PYTHON LIBRARIES

30 September (Mon): Numpy python library, Installation of numpy

Check version of numpy, Arrays using numpy (ndim method) Slicing of arrays

31 September (Tue): Data types in python libraries ( string, integer, float,

boolean, complex, time date, datetime, object, unicode, void) Find datatype of array using numpy

Copy() and view() method in numpy

## October

1. Oct: Shape() Concatenate() method ( join 2d array along rows axis=1) Stacking along rows using hstack() method ,

stacking along columns using vstack() method, stacking along

height using dstack() method

1. Oct: Split array into 3 parts ,Searching of array elements using where() method:- ( find indexes where values are even ) ,Sorting using numpy
2. Oct: Filtering of array Randint(), Randomly generate integer no, rand() for other type no, If randomly generate no according to size or

length of array, If randomly generate no according to rows amd columns

1. Oct:Pd class
2. Oct:Off
3. Oct: Off
4. Oct: Doubt Session
5. Oct: : Choice() method for random no,Shuffle() method:- varies position of no Shape() and size() method of array
6. Oct: Full() method:- create matrix, Char.multiply(), char.capitalize(), char.upper(), char.lower(), char.join(), char.equal():- for comparing elements
7. Oct: Dot() method:- Multiplication of two matrix,

Transpose() method:- exchangimg of matrix , Unique() method:-

for print unique valueRavel() method

1. Oct: Pd class
2. Oct:Off
3. Oct:off
4. Oct: Numpy statistical functions:-Amax(), Amin(), mean(), sum(), product(), peak to peak(), average(), percentile()
5. Oct: PANDAS LIBRARY, Introduction and check version

Installation ,DataFrame() method, Dictionary of list

Python pandas series,Read CSV files, Filter limited columns 16 Oct: Read Json files, Pandas data cleaning methods

( like empty cells, wrong data, duplicate data) ,Dropna() method, Fillna(), replace only specified columns

1. Oct: Corr() method:- Finding relationship

Plot() method :- Plotting using pandas and scatter() method

1. Oct: Pd class
2. Oct: Off
3. Oct:Off
4. Oct: MATPLOTLIB LIBRARY, Intro and installation

Draw graph of x,y coor using matplotlib, Graph with multiple points Plotting without line, Default x points

1. Oct: Matplotlib markers using scatter,Customize marker colors, size, labels Marker edge color customize
2. Oct: Explode() method, Add shadow() method, Add legend() and legend with header
3. Oct: Create Histogram, Show random no in form of histogram Subplot() method , Create Barchart
4. Oct: Pd class
5. Oct: Off
6. Oct: Off
7. Oct: Color, width, height in barchart, Add grid lines to plot

Show only x-axis/y-axis of grid lines, Change color , line style of grid

1. Oct:Practice
2. Oct:Practice
3. oct: Practice

**November** 1nov: Pd class 2nov: off

1. nov: off
2. nov: project using frontend technologies
3. nov: project using frontend technologies
4. nov: project using frontend technologies
5. nov: project using frontend technologies
6. nov: Pd class
7. nov: off
8. nov: off
9. nov: project using frontend technologies
10. nov: project using frontend technologies
11. nov: coversion using django
12. nov; coversion using django
13. nov: Doubt Session
14. nov: off
15. nov: off
16. nov: database connectivity of project
17. nov: database connectivity of project
18. nov : Holiday
19. nov: Holiday

24 nov: Final testing

28 nov: Pd class

29 nov: off

30 nov; Off

# PROJECT WORK (FINAL 20 DAYS)

Documentation project report+ daily dairy +ppt+final report