

<div> <div>One Step In Changing Education Chain...</div> <div> <div>RED &amp; WHITE</div> <div>GROUP OF INSTITUTE</div> </div> </div>										FACULTY NAME																					
										STARTING DATE				D	D	-	M	M	-	Y	Y	GRID									
										ENDING DATE				D	D	-	M	M	-	Y	Y	B. TIME		H	H	:	M	M			
STUDENT NAME																				GOOGLE CLASSROOM CODE											
CORE PYTHON																		TOTAL DAYS: ____ / 53													
LEC.	TOPIC										DATE	P/A	DAY	FEEDBACK		STU. SIGN		FACULTY SIGN													
1	<b>INTRO TO PYTHON</b> - History & Installation of Python - Python Shell & IDLE - First Python Program - Types of Mode to Run Program  <b>FUNDAMENTALS OF PYTHON</b> - print() and input() function - Variables, Datatypes & Operators - Type Casting Constructors - id() and type() functions													<table border="1"> <tr><td>A</td><td>B</td></tr> <tr><td>C</td><td>D</td></tr> </table>		A	B	C	D												
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PR1	Fundamental Booster												1	____/10																	
2	<b>DATATYPE IN DETAIL</b> - String Formatting & Manipulation - Collection Datatypes with Its Methods - Mutability of list & tuple - Shallow & Deep Copy - List Comprehension - Type Casting and del keyword													<table border="1"> <tr><td>A</td><td>B</td></tr> <tr><td>C</td><td>D</td></tr> </table>		A	B	C	D												
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PR2	Collection Manipulator												1	____/10																	
3	<b>CONTROL STRUCTURE</b> - Types of Control Structure - Short Hand Syntax (Ternary)  <b>LOOPING</b> - Types of Loops - range() function - Control Statements - Nested Loop													<table border="1"> <tr><td>A</td><td>B</td></tr> <tr><td>C</td><td>D</td></tr> </table>		A	B	C	D												
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PR3	Logic Box												2	____/10																	
4	<b>FUNCTION IN DETAIL</b> - Built-in Functions - UDF - *args, **kwargs and __doc__ - Function Recursion - Anonymous / Lambda Function - Return Multiple Values  <b>ARRAY &amp; SORTING</b> - 1D & 2D Array with List - Sorting Collection Datatypes													<table border="1"> <tr><td>A</td><td>B</td></tr> <tr><td>C</td><td>D</td></tr> </table>		A	B	C	D												
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C	D																														
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PR4	Functional Treat												2	____/10																	
5	<b>OBJECT ORIENTED PROGRAMMING (OOP)</b> - Class & Object - self & del keyword - Constructor and Destructor - Encapsulation - Nested Function - Reflection Enabling Functions  <b>INHERITANCE &amp; POLYMORPHISM</b> - Types of Inheritance - Method Overloading & Method Overriding - issubclass() and super() - Built-in Dunder Methods - Operator Overloading													<table border="1"> <tr><td>A</td><td>B</td></tr> <tr><td>C</td><td>D</td></tr> </table>		A	B	C	D												
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C	D																														
		4																													
PR5	OOP Wrapper												2	____/10																	

IN FEEDBACK (A = 100% | B = 80% | C = 60% | D = 30%)

6	<b>EXCEPTION HANDLING</b> - try ... except - try ... except ... else - try ... finally - try ... except ... else ... finally - Custom Exception - raise & assert keyword			2	<table><tr><td>A</td><td>B</td></tr><tr><td>C</td><td>D</td></tr></table>	A	B	C	D		
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C	D										
PR6	<b>Exception Killer</b>			1	___/10						
E1	<b>Viva &amp; Examination</b>			1	___/10						
7	<b>FILE HANDLING</b> - Modes of Opening File - CRUD operation with File			1	<table><tr><td>A</td><td>B</td></tr><tr><td>C</td><td>D</td></tr></table>	A	B	C	D		
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C	D										
PR7	<b>File Operator</b>			1	___/10						
8	<b>WORKING WITH MODULES</b> - datetime module - time module - math module - random module - operator module - uuid module			2	<table><tr><td>A</td><td>B</td></tr><tr><td>C</td><td>D</td></tr></table>	A	B	C	D		
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C	D										
PR8	<b>Moduler</b>			1	___/10						
9	<b>MODULES AND PACKAGES</b> - Creating, Importing & Renaming Modules - __name__ with __main__ - Creating & Using Package and Sub Packages - dir() and __init__.py			1	<table><tr><td>A</td><td>B</td></tr><tr><td>C</td><td>D</td></tr></table>	A	B	C	D		
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C	D										
PR9	<b>Packager</b>			1	___/10						
10	<b>REGULAR EXPRESSION (REGEX)</b> - re module - Getting specific pattern wise data  <b>COMMAND LINE ARGUMENT (CLA)</b> - sys module - sys.argv			2	<table><tr><td>A</td><td>B</td></tr><tr><td>C</td><td>D</td></tr></table>	A	B	C	D		
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PR10	<b>RegEx Commander</b>			1	___/10						
11	<b>PIP – PACKAGE MANAGER &amp; DATABASE INTERACTION (WITH MYSQL)</b> - What is SQL? - SQL Queries - Intro to XAMPP (phpMyAdmin) - CRUD operation with XAMPP (phpMyAdmin) - Downloading and Installing Package - mysql-connector module - CRUD operation with python’s mysql.connector			4	<table><tr><td>A</td><td>B</td></tr><tr><td>C</td><td>D</td></tr></table>	A	B	C	D		
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C	D										
PR11	<b>DB Miner</b>			2	___/10						
12	<b>GUI WITH TKINTER</b> - tkinter module - widgets and grid() - Binding Functions - Mouse Clicking Events - messagebox() and PhotoImage()			5	<table><tr><td>A</td><td>B</td></tr><tr><td>C</td><td>D</td></tr></table>	A	B	C	D		
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C	D										
PR12	<b>Software Combo</b>			5	___/10						
E2	<b>Viva &amp; Final Exam</b>			2	___/100						

**NOTE:**

- FEEDBACK WILL BE GIVEN BY STUDENTS
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1	<b>OS &amp; SUBPROCESS MODULE</b> - Basic terminal commands - os module - subprocess module with call() & Popen()													<table border="1"> <tr><td>A</td><td>B</td></tr> <tr><td>C</td><td>D</td></tr> </table>				A	B	C	D																		
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PR1	Executor												3	____/10																									
2	<b>MULTITHREADING &amp; EMAIL</b> - What is thread in a process? - threading module - Working of email sending through Internet - smtplib module - email package													<table border="1"> <tr><td>A</td><td>B</td></tr> <tr><td>C</td><td>D</td></tr> </table>				A	B	C	D																		
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PR2	Multi-threader & Mailer												3	____/10																									
3	<b>ITERATORS, GENERATORS &amp; CLOSURES</b> - __iter__() & __next__() - iter() & next() - yield keyword - Generator Function - Generator Object - global, local & nonlocal variables													<table border="1"> <tr><td>A</td><td>B</td></tr> <tr><td>C</td><td>D</td></tr> </table>				A	B	C	D																		
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PR3	UDL												1	____/10																									
4	<b>HIGHER ORDER FUNCTIONS</b> - sorted(), map(), reduce() & filter()  <b>DECORATORS</b> - Simple Decorator - Chaining Decorator - @classmethod & @staticmethod - property() & @property													<table border="1"> <tr><td>A</td><td>B</td></tr> <tr><td>C</td><td>D</td></tr> </table>				A	B	C	D																		
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PR4	Fast Food Maker												1	____/10																									
5	<b>VIRTUAL ENVIRONMENT</b> - virtualenv - venv - requirements.txt - pipenv													<table border="1"> <tr><td>A</td><td>B</td></tr> <tr><td>C</td><td>D</td></tr> </table>				A	B	C	D																		
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E1	Viva and Examination												1	____/10																									
6	<b>WORKING WITH EDITORS &amp; IDLE</b> - Sublime Text 3 - VS Code - Anaconda Navigator - PyCharm IDE  <b>DATA ANALYSIS WITH NUMPY</b> - NumPy library - NumPy Datatypes - Array Indexing - Array Math & Broadcasting - 1D & 2D Array - Arithmetic Operations on 2D Array													<table border="1"> <tr><td>A</td><td>B</td></tr> <tr><td>C</td><td>D</td></tr> </table>				A	B	C	D																		
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C	D																																						
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PR5	NumPy Analyzer												3	____/10																									
7	<b>HOT MODULES OF PYTHON</b> - qrcode mlibrary - pyinstaller library - csv module													<table border="1"> <tr><td>A</td><td>B</td></tr> <tr><td>C</td><td>D</td></tr> </table>				A	B	C	D																		
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PR6	Hunter			6	___/10						
8	<b>DATA ANALYSIS WITH PANDAS</b> - Pandas Library - Data Structure - Operations on DataFrames - Handling missing data - Boolean Reductions - Combining DataFrames - pivoting, sorting & aggregation - Descriptive Statistics - Types of Function Application - groupby() & transform() - Re-indexing& altering labels			5	<table><tr><td>A</td><td>B</td></tr><tr><td>C</td><td>D</td></tr></table>	A	B	C	D		
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PR7	Pandas Analyzer			2	___/10						
9	<b>DATA VISUALIZATION</b> - matplotlib library - Types of Charts with pyplot			2	<table><tr><td>A</td><td>B</td></tr><tr><td>C</td><td>D</td></tr></table>	A	B	C	D		
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PR8	Visualizer			2	___/10						
10	<b>NETWORKING</b> - What is Socket & Port? - What is Client & Server - socket module - Socket Programming			2	<table><tr><td>A</td><td>B</td></tr><tr><td>C</td><td>D</td></tr></table>	A	B	C	D		
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C	D										
PR9	Chat App			3	___/10						
11	<b>WEB SCRAPPING</b> - requests library - beautifulsoup library  <b>WEB AUTOMATION</b> - selenium library - Different browser’s WebDrivers			4	<table><tr><td>A</td><td>B</td></tr><tr><td>C</td><td>D</td></tr></table>	A	B	C	D		
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PR10	Scrapper & Bot			4	___/10						
12	<b>JSON PARSING</b> - What is json? - json module - Serialization & Deserialization of data - Read and Write json data with File - Working with live json API data			3	<table><tr><td>A</td><td>B</td></tr><tr><td>C</td><td>D</td></tr></table>	A	B	C	D		
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C	D										
PR11	Fetcher & Parser			5	___/10						
13	<b>Intro to Web Development</b> - Basic HTML - What is Framework - Installing Flask microframework and Run first web app - Routing and Variable Rules - URL Building - HTTP Methods - Templates - Static Files - Sending Form data to Template - File Uploading			12	<table><tr><td>A</td><td>B</td></tr><tr><td>C</td><td>D</td></tr></table>	A	B	C	D		
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PR12	Resume Builder			5	___/10						
E2	Viva and Final Exam			2	___/100						

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