

<div> <div>One Step In Changing Education Chain...</div> <div> <div>RED & WHITE</div> <div>GROUP OF INSTITUTE</div> </div> </div>										FACULTY NAME																													
										STARTING DATE				D	D	-	M	M	-	Y	Y	GRID																	
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STUDENT NAME																						GOOGLE CLASSROOM CODE																	
CORE PYTHON																				TOTAL DAYS: ____ / 53																			
LEC.	TOPIC										DATE	P/A	DAY	FEEDBACK				STU. SIGN		FACULTY SIGN																			
1	INTRO TO PYTHON - History & Installation of Python - Python Shell & IDLE - First Python Program - Types of Mode to Run Program FUNDAMENTALS OF PYTHON - 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													____/10																									
2	DATATYPE IN DETAIL - 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													____/10																									
3	CONTROL STRUCTURE - Types of Control Structure - Short Hand Syntax (Ternary) LOOPING - 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													____/10																									
4	FUNCTION IN DETAIL - Built-in Functions - UDF - *args, **kwargs and __doc__ - Function Recursion - Anonymous / Lambda Function - Return Multiple Values ARRAY & SORTING - 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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PR4	Functional Treat													____/10																									
5	OBJECT ORIENTED PROGRAMMING (OOP) - Class & Object - self & del keyword - Constructor and Destructor - Encapsulation - Nested Function - Reflection Enabling Functions INHERITANCE & POLYMORPHISM - 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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PR5	OOP Wrapper													____/10																									
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6	EXCEPTION HANDLING - 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	Exception Killer			1	___/10						
E1	Viva & Examination			1	___/10						
7	FILE HANDLING - 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	File Operator			1	___/10						
8	WORKING WITH MODULES - 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	Moduler			1	___/10						
9	MODULES AND PACKAGES - 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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PR9	Packager			1	___/10						
10	REGULAR EXPRESSION (REGEX) - re module - Getting specific pattern wise data COMMAND LINE ARGUMENT (CLA) - 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	RegEx Commander			1	___/10						
11	PIP – PACKAGE MANAGER & DATABASE INTERACTION (WITH MYSQL) - 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	DB Miner			2	___/10						
12	GUI WITH TKINTER - 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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PR12	Software Combo			5	___/10						
E2	Viva & Final Exam			2	___/100						

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PR6	Hunter			6	___/10						
8	DATA ANALYSIS WITH PANDAS - 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	DATA VISUALIZATION - 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	NETWORKING - 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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PR9	Chat App			3	___/10						
11	WEB SCRAPPING - requests library - beautifulsoup library WEB AUTOMATION - 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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C	D										
PR10	Scrapper & Bot			4	___/10						
12	JSON PARSING - 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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PR11	Fetcher & Parser			5	___/10						
13	Intro to Web Development - 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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STUDENT NAME																									GOOGLE CLASSROOM CODE																			
DJANGO																				TOTAL DAYS: ____ / 65																								
LEC.	TOPIC										DATE	P/A	DAY	FEEDBACK				STU. SIGN		FACULTY SIGN																								
1	INTRO TO DJANGO FRAMEWORK - What is Web Framework? - MVT Architecture - Setup Virtual Environment - Installing Django - Exploring Directory Structure - Creating First Django Project SETTING UP DJANGO WEB APP - Creating First Django App - Understanding URL Routing - Handling different Views - Running Web App on Server													<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	Quick Booster													____/10																														
2	TEMPLATES WITH DTL (DJANGO TEMPLATE LANGUAGE) - Setup Template directory's Path - Creating and Rendering Templates using URL Routings * - Passing Context in Multiple Templates - Using DTL to load context in Template - Tags, Variables & Filters - Template Inheritance													<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	Templatifier													____/10																														
3	FORM HANDLING - Raw HTML Form - Pure Django Form - Form Widgets - Display Form to Multiple Templates													<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	Form Maker													____/10																														
4	URL ROUTING - Dynamic URL Routing - Creating and Linking Multiple Apps - In App URL Routing & Namespacing - Django URLs Reverse													<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	Navigator													____/10																														
5	VIEWS AND MIXINS - FBV (Function Based Views) - CBV (Class Based Views) - Convert FBV to CBV - Custom Mixins for CBV													<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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PR5	View Mixer													____/10																														
6	STATIC FILE HANDLING - Setup static and media directory's Path - Adding Bootstrap for Frontend Enhancement - Collect Static Files *													<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	Asset Bundler													____/10																														
E1	Viva and Examination													____/10																														
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7	WORKING WITH MODELS - Django Database Models - Model Fields - Model Inheritance - Add an App to INSTALLED_APPS - Migrating Models to Database - Update Models and Migrate			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										
PR7	Migrator			1	___/10						
8	DAP (DJANGO ADMIN PANEL) - Creating Superuser - Exploring DAP - Manage Superuser - CRUD Operations with DAP - @admin.register() - Customizing DAP			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	Thrill Explorer			1	___/10						
9	ORM (OBJECT RELATIONAL MAPPER) - Using Django python-shell - Using ORM to deal with Database - CRUD Operation using ORM - Retrieve data using filters			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	DB Miner			1	___/10						
10	DYNAMIC TEMPLATES - Dynamic Webpages - Retrieve data using QuerySets - Passing context to Template FORM VALIDATION - Django ModelForm - Form Validation Methods - Setting initial values for Forms			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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PR10	Form Commander			1	___/10						
11	WORKING WITH ANOTHER DATABASE - Integrating MySQL Database - Using XAMPP for Database Interaction			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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PR11	Teleporter			1	___/10						
12	USER AUTHENTICATION - @login_required decorator for FBV - LoginRequiredMixin for CBV - login(), logout() and authenticate() methods - get_object_or_404() method			2	<table><tr><td>A</td><td>B</td></tr><tr><td>C</td><td>D</td></tr></table>	A	B	C	D		
A	B										
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PR12	Safe Area			1	___/10						
E2	Viva and Examination			1	___/10						
13	CREATING APIs USING DRF (DJANGO REST FRAMEWORK) - Intro and Installing DRF - Add DRF to INSTALLED_APPS - Adding REST_FRAMEWORK in settings.py - What is Serializer and Deserializer? - Serializer Class and ModelSerializer Class - APIs using Serializers, FBV, CBV, Model Mixins and Generic API Views			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										
PR13	API Digger			2	___/10						
14	TESTING BROWSABLE APIs - Using DRF's URL - Using Postman			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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PR14	Test a Taste			1	___/10						
15	ROUTING AND AUTHENTICATIONS IN DRF - Types of ViewSets - Types of Routers - authentication_classes and permission_classes properties			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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PR15	Watchman			1	___/10						
16	DOCUMENTING APIs - Using drf-yasg package - Integrating drf-yasg into settings.py - Generating APIs Docs - Test browsable APIs using drf-yasg's url			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										
PR16	Scarecrow			1	___/10						
17	PUBLISHING DJANGO WEB APPLICATION - Deploy on GitHub - Deploy on pythonanywhere - Collect Static Files *			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										
PR17	Publish a Web App			1	___/10						
E3	Final Exam			1	___/100						

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