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 | | | | | | |

C LANGUAGE

TOTAL DAYS: _____ / 46

LEC.	TOPIC	DATE	P/A	DAY	FEEDBACK	STU. SIGN	FACULTY SIGN
1	**INTRO TO C LANGUAGE** - History & Importance of C - Difference between Compiler & Interpreter - printf() function * - Escape Sequence characters			1	A B C D		
2	**DATATYPE, CONSTANT & VARIABLES** - Data Types - Variables & Constant - Keywords			1	A B C D		
3	**MANAGING INPUT/OUTPUT** - printf() * & scanf() function - Format specifiers			1	A B C D		
4	**OPERATOR & EXPRESSION** - Types of Operator - Operator Precedence - Type Conversation - sizeof() operator			2	A B C D		
PR1	**Greenhorns**			1	___ /10		
5	**CONTROL STRUCTURE** - if statement - if … else - ladder else if - nested if - ternary operator - switch case & goto label			3	A B C D		
PR2	**Momentum**			2	___ /10		
6	**LOOPING** - while loop - do … while loop - for loop - Control Statements (break & continue)			2	A B C D		
PR3	**Temperate**			3	___ /10		
7	**LOOPING WITH PATTERNS** - Nested for Loop			1	A B C D		
PR4	**Circlet**			3	___ /10		
8	**ARRAY IN DETAILS** - 1D Array - 2D Array (Working with Matrix)			3	A B C D		
PR5	**Assortment**			3	___ /10		
9	**STRING IN DETAILS** - String concept - getchar(), putchar() - gets(), puts() - String functions			3	A B C D		
PR6	**Filament**			2	___ /10		

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

10	**USER DEFINED FUNCTION (UDF)** - Function concepts - Types of functions - Passing Array & String - Recursion - Nested Functions			2	A B C D		
PR7	**Gathering**			2	___ /10		
11	**POINTER** - Pointer Concepts - Pointer with Array & String - Pointer with UDF - Call by Value & Call by Reference - Chain of Pointer			2	A B C D		
PR8	**Indicator**			2	___ /10		
12	**STRUCTURE, UNION & ENUMERATION** - Structure & Union Concept - Structure & Union with Array - Enumeration (Enum)			2	A B C D		
PR9	**Volume**			2	___ /10		
13	**FILE HANDLING** - File Opening Modes - File Reading - File Writing			1	A B C D		
PR10	**Supervison**			2	___ /10		

NOTE:

- FEEDBACK WILL BE GIVEN BY STUDENTS
- MARKS OUT OF 10 WILL BE GIVEN BY TUTOR

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

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	

C++ FOR ANDROID

TOTAL DAYS: ____ / 23

LEC.	TOPIC	DATE	P/A	DAY	FEEDBACK	STU. SIGN	FACULTY SIGN
1	**INTRO TO C++ PROGRAMMING** - History - Difference between C & C++ **BEGINNING WITH C++** - cout & cin - Control Structure & Looping - Arrays & String			2	A B C D		
PR1	**Fundamental Booster**			1	___ /10		
2	**INTRO TO OOPS CONCEPT** - Data Abstraction - Data Encapsulation - Inheritance - Polymorphism **PROGRAMMING WITH OOPS** - Class & Object - Access Modifiers			2	A B C D		
PR2	**The New Era**			1	___ /10		
3	**ENCAPSULATION** - Private Attributes - Setter & Getter - this keyword - Array of Object **STATIC KEYWORD** - Static Data Members - Scope Resolution Operator * - Static Member Functions			3	A B C D		
PR3	**Builder**			1	___ /10		
4	**CONSTRUCTOR** - Constructor Concepts - Types of Constructor			1	A B C D		
PR4	**Producer**			1	___ /10		
5	**INHERITANCE** - Inheritance Concept - Types of Inheritance - Scope Resolution Operator *			2	A B C D		
PR5	**Heritage**			1	___ /10		
6	**POLYMORPHISM** - Method Overloading - Method Overriding - Scope Resolution Operator *			2	A B C D		
PR6	**Multiprocessor**			1	___ /10		
7	**OPERATOR OVERLOADING** - Overload Binary Operator			1	A B C D		
PR7	**Signer**			1	___ /10		

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

8	**EXCEPTION HANDLING** - try, throw & catch() - General Exception [try & catch(…)]			1	A	B		
					C	D		
PR8	**Terminator**			1	___ /10			
E	**Exam**			1	___ /30			

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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	**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			2	A B C D		
PR1	**Fundamental Booster**			1	___ /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			2	A B C D		
PR2	**Collection Manipulator**			1	___ /10		
3	**CONTROL STRUCTURE** - Types of Control Structure - Short Hand Syntax (Ternary) **LOOPING** - Types of Loops - range() function - Control Statements - Nested Loop			2	A B C D		
PR3	**Logic Box**			2	___ /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			3	A B C D		
PR4	**Functional Treat**			2	___ /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			4	A B C D		
PR5	**OOP Wrapper**			2	___ /10		

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

6	**EXCEPTION HANDLING** - try … except - try … except … else - try … finally - try … except … else … finally - Custom Exception - raise & assert keyword			2	A B C D		
PR6	**Exception Killer**			1	___ /10		
E1	**Viva & Examination**			1	___ /10		
7	**FILE HANDLING** - Modes of Opening File - CRUD operation with File			1	A B C D		
PR7	**File Operator**			1	___ /10		
8	**WORKING WITH MODULES** - datetime module - time module - math module - random module - operator module - uuid module			2	A B 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	A B C D		
PR9	**Packager**			1	___ /10		
10	**REGULAR EXPRESSION (REGEX)** - re module - Getting specific pattern wise data **COMMAND LINE ARGUMENT (CLA)** - sys module - sys.argv			2	A B C D		
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	A B 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	A B C D		
PR12	**Software Combo**			5	___ /10		
E2	**Viva & Final Exam**			2	___ /100		

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