MAHATMA GANDHI COLLEGE
LALPUR, PURULIA

TITLE OF THE ADD-ON COURSE

Learning Mathematics by using Programming Platforms

Tenure :- March 2023 to April 2023

Duration :- 30 Hours

No. of enrolled Students :- 2

Offered By - Department of Mathematics

Co-ordinator :- Mrs. Monidipa Mitra

(Classes taken usually afternoon at 3:00 p.m and also through online mode i.e. google meet when needed)

MAHATMA GANDHI COLLEGE
ESTD.-1961
LALPUR, PURULIA

To

The Principal
Mahatma Gandhi College
Lalpur, Purulia

Through
IQAC, M. G. College

Subject: Application for Offering Add on course for the session:-

Sir,

With due respect I, Monidipa Mitra, Department of Mathematics want to inform you that, our department is willing to offer an add on course entitled Learning Mathematics by Using Programming Platforms for the ongoing session. The details of the course and evaluation procedure are attached herewith.

Kindly do the needful in our favor so that we could run the program successfully.

Thanking you.

Yours faithfully
Monidipa Mitra
Dept.- Mathematics
Dt- 20/2/2023

Approved

Principal,
Mahatma Gandhi College
Lalpur, Dakdali, Purulia

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Name of the Course: - Learning Mathematics by Using Programming Platforms

Course Duration: - 30 Hours

Course Objective: -

MATLAB, MATPLOTLIB, MS EXCEL are designed for ease of use and behaves as programming language that is tailored for control tasks used in academic worldwide in research, development and design.

MATLAB a matrix-based language allowing the most natural expression of computational Mathematics, used effectively to analyse and visualize data. MATPLOTLIB, a comprehensive library for creating static, animated, interactive visualisations in PYTHON make interactive figures that can zoom, pan, update.

The Course and Lesson Plan

Sl. No.	Course Content	Hours
1	**MATLAB** **I.** Introduction of MATLAB **II.** MATLAB Variables **III.** MATLAB Matrix **IV.** MATLAB Workspace **V.** Basic Arithmetic Operations **VI.** Solve Differential Equation **VII.** Solve Algebraic Equation **VIII.** Matrix Operations	8
2	**Practice – (Both Oral & Written)**	2
3	**MATPLOTLIB** **I.** Introduction of MATPLOTLIB **II.** Bar Plot **III.** Line Plot **IV.** Scatter Plot **V.** Bar graph **VI.** Histogram **VII.** Pie-Chart **VIII.** Fill between Plot	8
4	**Practice – (Both Oral & Written)**	2
5	**MS – EXCEL** **I.** Introduction of MS-EXCEL **II.** Input Data according to Row and Column **III.** Insert more Row and Column **IV.** Sort and Filter Option **V.** Sum and Average Function **VI.** Insert Chart (Line, Bar, Pie, Column) in 2D and 3D Format **VII.** Insert Formulas (Fraction, Bracket, Trigonometric Function, Limit Function, Matrix etc.)	8
6	**Practice – (Both Oral & Written)**	2
7	**Assessment / Examination (Oral & Written)**	
	Total Hours	30

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Learning Outcome

By learning MATLAB student will be able to analyse data for homework, conduct research and develop programming skills that will prepare them for their future career. MATPLOTLIB will enable them to create publication quality plots and help them to compare and contrasts other programming languages.

9

Evaluation Procedure			Marks & Grading	
% of Marks taken	From		Marks	Grade
10	Everyday Activity		Below 40	F
10	M.C.Q / Oral		40-59	C
80	Final Exam		60-79	B
			80-100	A

Mahatma Gandhi College,Lalpur,Purulia

Department of Mathematics

Notice

Dated: 22/2/2023

It is informed to all the students of B.Sc.(Prog.) of Sem-VI ,2023 that without any course fee an Add-on-Course on 'Learning Mathematics by using Programming Platforms' will be conducted by the **Dept. of Mathematics** from March to ~~April(2023~~ Total 15 Students to be enrolled for the above mentioned course. Those who are interested,is directed to attend the class on 6/3/2023 at 10a.m. in Mathematics Dept. .

Total duration of the course is 30 hours.

Monidipa Mitra
HOD,Dept. of Mathematics
22/2/2023

MAHATMA GANDHI COLLEGE, LALPUR, PURULIA

Department of Mathematics

Learning Mathematics by using Programming Platforms

Date:- 6/3/2023

Enrollment Sheet

Sl. No.	Name	Roll No.	Sem/~~Roll No.~~	Signature	Phone No.
1.	PARAMITA MAHATO	035	VI (Math)	Paramita Mahato	7864973128
2.	TINKU MAHATO	043	VI (Math)	Tinku Mahato	9933013265

Mitra
6/3/2023

Mahatma Gandhi College,Lalpur,Purulia

Department of Mathematics

Notice

Date: 19/4/2023

It is Notified to all enrolled students of **Mathematics** Add-on Course on 'Learning Mathematics by using Programming Platforms' that a practical examination of 100 marks (80 practical+20 oral) will be held on 27/4/2023 at 11a.m. at Computer Lab. .

All the students are directed to appeared in the examination.

Monidipa Mitra

HOD,Dept. of Mathematics

19/4/23

MAHATMA GANDHI COLLEGE, LALPUR, PURULIA

Department of Mathematics

Attendance Sheet

Date:- 27/4/2023

Course Duration:- Exam.

Sl. No.	Roll No.	Name	Sem	Signature
1	35	PARAMITA MAHATO	VI (Math)	Paramita Mahato.
2	43	TINKU MAHATO	VI (Math)	Tinku Mahato

Mitra 27/4/23

MAHATMA GANDHI COLLEGE, LALPUR, PURULIA

Department of Mathematics

Attendance Sheet

Date:-

Course Duration:-

Sl. No.	Roll No.	Name	Sem	Signature

MAHATMA GANDHI COLLEGE, LALPUR, PURULIA

Department of Mathematics

Attendance Sheet

Date:-

Course Duration:-

Sl. No.	Roll No.	Name	Sem	Signature

MAHATMA GANDHI COLLEGE, LALPUR, PURULIA
DEPARTMENT OF MATHEMATICS
ADD-ON COURSE- TITLE:- " Learning Mathematics by using Programming Platforms "
Date of Exam:- 27/7/2023

RESULT SHEET

SL NO	NAME	ROLL NO	SCORE IN WRITTEN EXAM.	Everyday Activity	M.C.Q./ORAL	TOTAL MARKS	RESULT	GRADE
1	PARAMITA MAHATO	35	72	8	7	87	Pass	A
2	TINKU MAHATO	43	64	8	5	77	Pass	B
3								
4								
5								
6								
7								
8								
9								
10								

Milita

MAHATMA GANDHI COLLEGE, LALPUR

Daldali , Purulia PIN 723130
mahatmagandhicollegelalpur.ac.in
NAAC Accredited, Grade 'B+' w.e.f. 16.09.2016

Certificate

This is to certify that .....a bonafied student of Sem ..VI.. of Mahatma Gandhi College , Lalpur , Purulia has successfully completed the Add-on Course on "..Learning Mathematics by Using Programming Platforms.." organized by the Department of ..Mathematics.. from ..March , 2023.. to ..April , 2023.. and he / she has obtained A/ B/ C grade.

Principal

Monidipa Mitra
Course Coordinator