

Department of Physics Kharagpur College

Notice for Certificate Course on “Computer Programing using MATLAB & Python Language”.

Date: 24.05.2023

This is to inform all the students of the College that a certificate course on “Computer Programmig using MATLAB & Python Language” will be organized by the Department of Physics, Kharagpur College on and from 29.05.2023. The course duration will be 30 hours. This course will be both online and offline mode. Last date of registration for the course is 28.05.2023. Registration fee is Rs.100/- (Rupees one hundred only). You have to pay the registration fees Rs. 100 through the website link, kharagpurcollege.in >admission rule > Click here for UG section > Click here for certificate course fee (commerce) within 28/05/2023 midnight positively.

Registration Link for the Course: <https://forms.gle/7as8ABMxfeZrEsNx9>

Members of the Organizing Committee:

1. Dr. Debasish Aich, Assistant Professor in Physics
2. Dr. Jyotirmoy Pramanik, Associate Professor in Physics
3. Dr. Tanika Kar, Associate Professor in Physics
4. Dr. Ritwik Saha, Assistant Professor in Physics
5. Prof. Rudra Narayan Mondal, Assistant Professor in Physics
6. Dr. Samir Kumar Giri, Assistant Professor & HOD, Physics, Coordinator
7. Prof. Mihir Das , Assistant Professor in Physics
8. Dr. Parbati Basu, SACT – I
9. Sri Pankaj Patra, SACT – II



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Principal
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Department of Physics
Kharagpur College
Certificate Course on “Computer Programing using MATLAB & Python Language”.
(Duration: 29.05.2023 to 10.07.2023)

Module - 1

1. Local environment setup
 - a. Basic installation steps
2. Understanding the MATLAB environment
 - a. Current folder
 - b. Command window
 - c. Workspace
 - d. Command history
3. Basic syntax
 - a. Some basic hands on practice
 - b. Use of semicolon in MATLAB
 - c. Adding comments to the code
 - d. Some commonly used operators and special characters
 - e. Naming variables
 - f. Saving and loading variables
4. Variables
 - a. Assigning variables
 - b. Multiple assignments
 - c. The clear command
 - d. Long assignments
 - e. Creating vectors
 - f. Creating matrices
5. Commands
 - a. Commands for managing a session
 - b. Commands for working with the system
 - c. Input and output commands
 - d. Vector, matrix and array commands
 - e. Plotting commands
 - f. Creating script files (.m files)
6. Operators
 - a. Arithmetic operators
 - b. Relational operators
 - c. Logical operators

Module – 2

1. Vectors
 - a. Row vectors
 - b. Column vectors

- c. Referencing the elements of a vector
 - d. Vector operations
- 2. Matrix
 - a. Creating a matrix
 - b. Referencing the elements of a matrix
 - c. Deleting a row or a column in a matrix
 - d. Matrix operations
- 3. Arrays
 - a. Some special arrays in MATLAB
 - b. Multidimensional arrays
 - c. Some array functions
 - d. Sorting arrays
 - e. Cell array
- 4. Colon notation

Module – 3

- 1. Analytical Functions
 - a. Syntax of an analytical function
 - b. Anonymous functions
- 2. Data Import
 - a. The importdata() function
 - b. Import text data files
- 3. Data Output
- 4. Making plots
 - a. The plot() function
 - b. Adding titles and labels to the plot
 - c. Drawing multiple functions on the same graph
 - d. Setting colors on graph
 - e. Generating sub plot

Module – 4

- 1. Algebra
 - a. Solving basic algebraic equations
 - b. Solving quadratic equations
 - c. Solving higher order equations
 - d. Solving system of equations
- 2. Differentiation
 - a. The diff() command
 - b. Calculating higher order derivatives
 - c. Finding maxima and minima of a curve
 - d. Solving differential equations
- 3. Integration
 - a. Computing indefinite integral
 - b. Computing definite integral
- 4. Polynomials
 - a. Representing polynomials as row vectors

- b. Evaluating polynomials
- c. Finding roots of a polynomials
- d. Polynomial curve fitting

Module – 5

1. Differential Equations
 - a. First order linear ODE
 - b. Solve differential equation with condition
 - c. Non-linear differential equation with initial condition
 - d. Second order ODE with initial conditions
 - e. Third order ODE with initial conditions

Module – 6

1. Introduction to Python
2. Overview of Python and its applications
3. Installation of Python and an IDE (e.g., Anaconda, Jupyter notebook, Pydroid 3 for Android mobile)
4. Basics: variables, data types (Int, Float, Complex, List, Tuple, Set, String etc.), and basic mathematical operations

Module – 7

1. Control Flow: Conditional statements (if, else, elif)
2. Looping structures (for, while)
3. Applications (To check even or odd number, Leap year, sum of n numbers, Factorial)

Module – 8

1. Introduction to functions
User defined functions def: (return statement, default values for arguments, key word arguments), lambda function.
2. Applications

Module – 9

1. Introduction to lists, strings and tuples
2. Operations using lists, strings and tuples
3. List comprehensions

Module – 10

1. Introduction of graph plotting using Python
 2. Pip installation of matplotlib in pydroid 3 using python repository plugin
 3. Matplotlib as a plotting Module: Basics of XY-plotting of function (i) power laws and exponential functions, (ii) trigonometric functions.
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Department of Physics, Kharagpur College
Certificate Course on “Computer Programming using MATLAB & Python Language”
Course Schedule

29.05.2023	Inaugural Address by the Principal & HOD Physics and brief introduction to the course (12.00 noon to 2.00 pm).	
Dates	2 pm -3:30 pm	3:30 pm -5 pm
01.06.2023	MR	MR
12.06.2023	MR	JP
13.06.2023	MR	JP
14.06.2023	MR	JP
16.06.2023	MR	MR
21.06.2023	MR	RS
23.06.2023	MR	RS
28.06.2023	MR	RNM
30.06.2023	MR	RNM
04.07.2023	MR	RNM
10.07.2023	Evaluation	Valedictory Address

JP – Dr. Jyotrimoy Pramanik, RS – Dr. Ritwik Saha, RNM – Prof. Rudra Narayan Mondal,
MR – Mr. Manideep Roy (PMRF, IIT-KGP)

Coordinators of certificate course



Principal

Principal
Kharagpur College

Kharagpur College
Department of Physics
Certificate Course on “Computer Programming using MATLAB & Python Language”
List of Registered Candidates

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Kharagpur College
Department of Physics
Certificate course on “Computer Programming using MATLAB & Python Language”
Duration: 29/05/2023 to 10/07/2023

Date of Evaluation: 10.07.2023

MCQ

Name	
Sem	
Roll number	

Tick the correct answer

- 1) Which among the following can be a variable name in Matlab
 - a. x6
 - b. for
 - c. 1college
 - d. Calculate#1

- 2) If $f = \sin(x*y)$. Which among the following Matlab code can used to find the partial derivate of f with respect to x.
 - a. syms y
diff(f)
 - b. syms x,y
diff(f,x)
 - c. syms x,y
diff(f,y)
 - d. syms x
diff(f)

- 3) Which among the following in-built function is used for solving numerical integration in Matlab.
 - a. integrate
 - b. int
 - c. integration
 - d. integral

- 4) Which among the following in-built function is used for solving differential equation in Matlab.
- a. dsolve
 - b. dsolution
 - c. diffsolve
 - d. solvediff
- 5) If A and B are two matrices. Which among the following is the correct MATLAB syntax to perform matrix multiplication (BA).
- a. A.*B
 - b. B.*A
 - c. B*A
 - d. A*B
- 6) If A and B are two matrices. Which among the following is the correct MATLAB syntax to perform element wise multiplication of two matrices.
- a. A*B
 - b. B*A
 - c. B*.A
 - d. B.*A
- 7) Index of an array in Matlab start with
- a. 0
 - b. 1
 - c. Depends on the class of array.
 - d. Unknown
- 8) What is the return type of angles function in Matlab.
- a. Degree
 - b. Radians and Degree
 - c. Radians
 - d. Depend on the argument.
- 9) Which of the following command is used to clear command window in Matlab.
- a. clc
 - b. clear

- c. close all
- d. clear all

10) Which among the following is not a predefined variable in Matlab

- a. inf
- b. pi
- c. i
- d. gravity

11) Which among the following inbuilt function returns the adjoint of a matrix in Matlab.

- a. det
- b. inv
- c. adjoint
- d. adj

12) In Matlab, which among the command is used to add text label to x axis.

- a. axes
- b. xlabel
- c. axis
- d. ylabel

13) $x=2*3;$
 $y=x*2$

What will be the output when the above commands are executed in Matlab.

- a. $y=12$
 $x=2*3$
- b. $y=12$
 $x=6$
- c. $y=2*3*2$
 $x=6$
- d. $y=12$

14) What is the use of abs function in Matlab.

- a. Returns the magnitude of a number.
- b. Returns the square root of a number.
- c. Returns the power of a number.

d. None

15) Which among the following is used to check if two elements are equal in Matlab.

a. !=

b. =

c. ==

d. isequal

Kharagpur College
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Certificate Course on "Computer Programming using MATLAB & Python Language"
Attendance Sheet
Date : 01/06/2023

SL. No.	Name of the Student	Date	Full Signature	Remarks
1	Tithi Sen		Tithi Sen	
2	Shesadri sahoo		Shesadri sahoo	
3	Bratish Santra		Bratish Santra	
4	Ananda Mohan Baskey		Ananda Mohan Baskey	
5	Rajesh Santra		Rajesh Santra	
6	Jayanta Deb		Jayanta Deb	
7	Somudip Koley		Somudip Koley	
8	Soumyadip Maity		Soumyadip Maity	
9	Jyotirmoy dey		Jyotirmoy dey	
10	Subhadip Mahakul		Subhadip Mahakul	
11	Subhayu Kuila		Subhayu Kuila	
12	Indra Kamal Sahoo		Indra Kamal Sahoo	
13	Sanjib Mandal		Sanjib Mandal	
14	Prakash Murmu		Prakash Murmu	
15	Mrinmoy Chowdhury		Mrinmoy Chowdhury	
16	Ankan Bera		Ankan Bera	
17	Saibesh Pal		Saibesh Pal	
18	Monomoy Mondal		Monomoy Mondal	
19	SK Sofiul Islam		SK Sofiul Islam	
20	Debjani Das		Debjani Das	
21	Supriyo Kumar De		Supriyo Kumar De	
22	Sourabh Samanta		Sourabh Samanta	
23	Aniket Roy		Aniket Roy	
24	Animesh Maity		Animesh Maity	
25	Pradip Kumar Sahoo		Pradip Kumar Sahoo	
26	Saptarshi Pahari		Saptarshi Pahari	
27	Kiranmay Maity		Kiranmay Maity	
28	Arijit Das		Arijit Das	
29	Biplab Mandal		Biplab Mandal	
30	Dipankar Dutta		Dipankar Dutta	
31	Rahul Manna		Rahul Manna	
32	Sourav Bagal		Sourav Bagal	
33	Rajat Das		Rajat Das	
34	Arijit Santra		Arijit Santra	
35	Anindya Sundar Patra		Anindya Sundar Patra	
36	Anup Kumar Murmu		Anup Kumar Murmu	
37	Arpan sahoo		Arpan sahoo	
38	Nabin Das		Nabin Das	
39	Parijat Patra		Parijat Patra	
40	Bikram Laha		Bikram Laha	
41	Pradip Das		Pradip Das	
42	Samiran Jana		Samiran Jana	
43	Sayan Chakraborty		Sayan Chakraborty	
44	Tanmoy sahu		Tanmoy sahu	
45	Dibyendu Roy		Dibyendu Roy	
46	Mitali Dhal		Mitali Dhal	
47	Anirban Jana		Anirban Jana	
48	Kalyan Khatua		Kalyan Khatua	

Kharagpur College
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Attendance Sheet

SL. No.	Name of the Student	Date	Full Signature	Remarks
50	Souvik Jana		Souvik Jana	
51	Sayan Dey		Sayan Dey	
52	Aranya Pariary		Aranya Pariary	
53	Rabindranath Manna		Rabindranath Manna	
54	Souvik acharya		Souvik Acharys	
55	Souvik Shee		Souvik Shee	
56	Rupam Day		Rupam Day	
57	Sandip Dutta		Sandip Dutta	
58	Subhajit Khanra		Subhajit Khanra	

1	Somnath Gayen	Somnath Gayen		
2	Sintu Gayen	Sintu Gayen		
3	Shraban patra	Shraban Patra		
4	Triman Guchhait	Triman Guchhait		
	Joydeep Saha			
	Soumyadip Banerjee			

Kharagpur College
Department of Physics
Certificate Course on "Computer Programming using MATLAB & Python Language"
Attendance Sheet
Date : 12/06/2023

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4	Ananda Mohan Baskey		Ananda Mohan Baskey	
5	Rajesh Santra		Rajesh Santra.	
6	Jayanta Deb		Jayanta Deb	
7	Somudip Koley		Somudip Koley	
8	Soumyadip Maity		Soumyadip Maity	
9	Jyotirmoy dey			
10	Subhadip Mahakul		Subhadip Mahakul	
11	Subhayu Kuila		Subhayu Kuila	
12	Indra Kamal Sahoo		Indra Kamal Sahoo	
13	Sanjib Mandal		Sanjib Mandal	
14	Prakash Murmu		Prakash Murmu	
15	Mrimmoy Chowdhury		Mrimmoy Chowdhury	
16	Ankan Bera		Ankan Bera	
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27	Kiranmay Maity		Kiranmay Maity	
28	Arijit Das		Arijit Das	
29	Biplab Mandal		Biplab Mandal	
30	Dipankar Dutta		Dipankar Dutta	
31	Rahul Manna			
32	Sourav Bagal		Sourav Bagal	
33	Rajat Das		Rajat Das	
34	Arijit Santra		Arijit Santra	
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36	Anup Kumar Murmu			
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41	Pradip Das		Pradip Das	
42	Samiran Jana		Samiran Jana	
43	Sayan Chakraborty		Sayan Chakraborty	
44	Tanmoy sahu		Tanmoy sahu	
45	Dibyendu Roy		Dibyendu Roy	
46	Mitali Dhal		Mitali Dhal	
47	Anirban Jana		Anirban Jana	
48	Kalyan Khatua		Kalyan Khatua.	
49	Subhrangshu Tunga		Subhrangshu Tunga	
50	Souvik Jana			
51	Souvik Das			

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55	Souvik Shee		Souvik Shee	
56	Rupam Day		Rupam Day	
57	Sandip Dutta		Sandip Dutta	
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Attendance Sheet

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42	Samiran Jana		Samiran Jana	
43	Sayan Chakraborty		Sayan Chakraborty	
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58	Subhajit Khanra		Subhajit Khanra	

	Somnath Gayen	Somnath Gayen		
	Sintu Gayen	Sintu Gayen		
	Shraban patra	Shraban Patra		
52	Triman Guchhait	Triman Guchhait		
63	Joydeep Saha			
64	Soumyadip Banerjee			

Kharagpur College
Department of Physics
Certificate Course on "Computer Programming using MATLAB & Python Language"
Attendance Sheet

Date : 14/06/2023

SL. No.	Name of the Student	Date	Full Signature	Remarks
1	Tithi Sen		Tithi Sen	
2	Shesadri sahoo		Shesadri Sahoo.	
3	Bratish Santra		Bratish Santra	
4	Ananda Mohan Baskey		Ananda Mohan Baskey	
5	Rajesh Santra		Rajesh Santra	
6	Jayanta Deb		Jayanta Deb	
7	Somudip Koley		Somudip Koley	
8	Soumyadip Maity		Soumyadip Maity	
9	Jyotirmoy dey			
10	Subhadip Mahakul		Subhadip Mahakul	
11	Subhayu Kuila		Subhayu Kuila	
12	Indra Kamal Sahoo		Indra Kamal Sahoo	
13	Sanjib Mandal		Sanjib Mandal	
14	Prakash Murmu		Prakash Murmu.	
15	Mrinmoy Chowdhury		Mrinmoy Chowdhury	
16	Ankan Bera		Ankan Bera	
17	Saibesh Pal		Saibesh Pal	
18	Monomoy Mondal		Monomoy Mondal	
19	SK Sofiul Islam		SK Sofiul Islam	
20	Debjani Das		Debjani Das	
21	Supriyo Kumar De		Supriyo Kumar De	
22	Sourabh Samanta		Sourabh Samanta	
23	Aniket Roy		Aniket Roy	
24	Animesh Maity			
25	Pradip Kumar Sahoo		Pradip Kumar Sahoo	
26	Saptarshi Pahari		Saptarshi Pahari	
27	Kiranmay Maity		Kiranmay Maity	
28	Arijit Das		Arijit Das	
29	Biplab Mandal		Biplab Mandal	
30	Dipankar Dutta		Dipankar Dutta	
31	Rahul Manna			
32	Sourav Bagal		Sourav Bagal	
33	Rajat Das		Rajat Das.	
34	Arijit Santra		Arijit Santra	
35	Anindya Sundar Patra		Anindya Sundar Patra.	
36	Anup Kumar Murmu			
37	Arpan sahoo		Arpan Sahoo.	
38	Nabin Das		Nabin Das	
39	Parijat Patra		Parijat Patra	
40	Bikram Laha		Bikram Laha	
41	Pradip Das		Pradip Das	
42	Samiran Jana		Samiran Jana	
43	Sayan Chakraborty		Sayan Chakraborty	
44	Tanmoy sahu		Tanmoy Sahu	
45	Dibyendu Roy		Dibyendu Roy	
46	Mitali Dhal		Mitali Dhal	
47	Anirban Jana		Anirban Jana	
48	Kalyan Khaitan		Kalyan Khaitan	

Kharagpur College
Department of Physics
Certificate Course on "Computer Programming using MATLAB & Python Language"
Attendance Sheet

SL. No.	Name of the Student	Date	Full Signature	Remarks
50	Souvik Jana		Souvik Jana	
51	Sayan Dey		Sayan Dey	
52	Aranya Pariary		Aranya Pariary	
53	Rabindranath Manna		Rabindranath Manna	
54	Souvik acharya		Souvik Acharya	
55	Souvik Shee		Souvik Shee	
56	Rupam Day		Rupam Day	
57	Sandip Dutta		Sandip Dutta	
58	Subhajit Khanra		Subhajit Khanra	

	Somnath Gayen	Somnath Gayen		
	Sintu Gayen	Sintu Gayen		
	Shraban patra	Shraban Patra		
52	Triman Guchhait	Triman Guchhait		
63	Joydeep Saha			
64	Soumyadip Banerjee			

Kharagpur College
Department of Physics
Certificate Course on "Computer Programming using MATLAB & Python Language"

Attendance Sheet
 Date : 16/06/2023

SL. No.	Name of the Student	Date	Full Signature	Remarks
1	Tithi Sen		Tithi Sen	
2	Shesadri sahoo		Shesadri sahoo	
3	Bratish Santra		Bratish Santra	
4	Ananda Mohan Baskey		Ananda Mohan Baskey	
5	Rajesh Santra		Rajesh Santra	
6	Jayanta Deb		Jayanta Deb	
7	Somudip Koley		Somudip Koley	
8	Soumyadip Maity		Soumyadip Maity	
9	Jyotirmoy dey			
10	Subhadip Mahakul		Subhadip Mahakul	
11	Subhayu Kuila		Subhayu Kuila	
12	Indra Kamal Sahoo		Indra Kamal Sahoo	
13	Sanjib Mandal		Sanjib Mandal	
14	Prakash Murmu		Prakash Murmu	
15	Mrinmoy Chowdhury		Mrinmoy Chowdhury	
16	Ankan Bera		Ankan Bera	
17	Saibesh Pal		Saibesh Pal	
18	Monomoy Mondal		Monomoy Mondal	
19	SK Sofiul Islam		SK Sofiul Islam	
20	Debjani Das		Debjani Das	
21	Supriyo Kumar De		Supriyo Kumar De	
22	Sourabh Samanta		Sourabh Samanta	
23	Aniket Roy		Aniket Roy	
24	Animesh Maity			
25	Pradip Kumar Sahoo		Pradip Kumar Sahoo	
26	Saptarshi Pahari		Saptarshi Pahari	
27	Kiranmay Maity		Kiranmay Maity	
28	Arijit Das		Arijit Das	
29	Biplab Mandal		Biplab Mandal	
30	Dipankar Dutta		Dipankar Dutta	
31	Rahul Manna			
32	Sourav Bagal		Sourav Bagal	
33	Rajat Das		Rajat Das	
34	Arijit Santra		Arijit Santra	
35	Anindya Sundar Patra		Anindya Sundar Patra	
36	Anup Kumar Murmu			
37	Arpan sahoo		Arpan Sahoo	
38	Nabin Das		Nabin Das	
39	Parijat Patra		Parijat Patra	
40	Bikram Laha		Bikram Laha	
41	Pradip Das		Pradip Das	
42	Samiran Jana		Samiran Jana	
43	Sayan Chakraborty		Sayan Chakraborty	
44	Tanmoy sahu		Tanmoy Sahu	
45	Dibyendu Roy		Dibyendu Roy	
46	Mitali Dhal		Mitali Dhal	
47	Anirban Jana		Anirban Jana	
48	Kalyan Khatua		Kalyan Khatua	
49	Subhrangshu Tunga		Subhrangshu Tunga	
50	Souvik Jana			
51	Sayan Dev			

Kharagpur College
Department of Physics
Certificate Course on "Computer Programming using MATLAB & Python Language"
Attendance Sheet

SL. No.	Name of the Student	Date	Full Signature	Remarks
50	Souvik Jana		Souvik Jana	
51	Sayan Dey		Sayan Dey	
52	Aranya Pariary		Aranya Pariary	
53	Rabindranath Manna		Rabindranath Manna	
54	Souvik acharya		Souvik Acharya	
55	Souvik Shee		Souvik Shee	
56	Rupam Day		Rupam Dey	
57	Sandip Dutta		Sandip Dutta	
58	Subhajit Khanra		Subhajit Khanra	

	Somnath Gayen	Somnath Gayen		
	Sintu Gayen	Sintu Gayen		
61	Shraban patra	Shraban Patra		
62	Triman Guchhait	Triman Guchhait		
63	Joydeep Saha			
64	Soumyadip Banerjee			

Kharagpur College
Department of Physics
Certificate Course on "Computer Programming using MATLAB & Python Language"
Attendance Sheet

Date : 21/06/2023

SL. No.	Name of the Student	Date	Full Signature	Remarks
1	Tithi Sen		Tithi sen.	
2	Shesadri sahoo		Shesadri sahoo.	
3	Bratish Santra		Bratish Santra	
4	Ananda Mohan Baskey		Ananda Mohan Baskey	
5	Rajesh Santra		Rajesh Santra.	
6	Jayanta Deb		Jayanta Deb	
7	Somudip Koley		Somudip koley	
8	Soumyadip Maity		Soumyadip Maity	
9	Jyotirmoy dey			
10	Subhadip Mahakul		Subhadip Mahakul	
11	Subhayu Kuila		Subhayu Kuila	
12	Indra Kamal Sahoo		Indra Kamal Sahoo	
13	Sanjib Mandal		Sanjib Mandal	
14	Prakash Murmu		Prakash Murmu.	
15	Mrinmoy Chowdhury		Mrinmoy Chowdhury	
16	Ankan Bera		Ankan Bera	
17	Saibesh Pal		Saibesh Pal	
18	Monomoy Mondal		Monomoy Mondal	
19	SK Sofiul Islam		SK Sofiul Islam.	
20	Debjani Das		Debjani Das	
21	Supriyo Kumar De		Supriyo Kumar De	
22	Sourabh Samanta		Sourabh samanta	
23	Aniket Roy		Aniket Roy	
24	Animesh Maity			
25	Pradip Kumar Sahoo		Pradip Kumar Sahoo	
26	Saptarshi Pahari		Saptarshi Pahari	
27	Kiranmay Maity		Kiranmay Maity	
28	Arijit Das		Arijit Das	
29	Biplab Mandal		Biplab Mandal	
30	Dipankar Dutta		Dipankar Dutta	
31	Rahul Manna			
32	Sourav Bagal		Sourav Bagal	
33	Rajat Das		Rajat Das.	
34	Arijit Santra		Arijit Santra	
35	Anindya Sundar Patra		Anindya Sundar Patra.	
36	Anup Kumar Murmu			
37	Arpan sahu		Arpan Sahoo.	
38	Nabin Das		Nabin Das	
39	Parijat Patra		Parijat Patra	
40	Bikram Laha		Bikram Laha	
41	Pradip Das		Pradip Das	
42	Samiran Jana		Samiran Jana	
43	Sayan Chakraborty		Sayan Chakraborty	
44	Tanmoy sahu		Tanmoy Sahu	
45	Dibyendu Roy		Dibyendu Roy	
46	Mitali Dhal		Mitali Dhal	
47	Anirban Jana		Anirban Jan	
48	Kalyan Khatua		Kalyan Khatua.	
49	Subhrangshu Tunga		Subhrangshu Tunga	
50	Souvik Jana			
51	Sayan Dey			

Kharagpur College
Department of Physics
Certificate Course on "Computer Programming using MATLAB & Python Language"
Attendance Sheet

SL. No.	Name of the Student	Date	Full Signature	Remarks
50	Souvik Jana		Souvik Jana	
51	Sayan Dey		Sayan Dey	
52	Aranya Pariary		Aranya Pariary	
53	Rabindranath Manna		Rabindranath Manna	
54	Souvik acharya		Souvik Acharya	
55	Souvik Shee		Souvik Shee	
56	Rupam Day		Rupam Dey	
57	Sandip Dutta		Sandip Dutta	
58	Subhajit Khanra		Subhajit Khanra	

	Somnath Gayen	Somnath Gayen		
	Sintu Gayen	Sintu Gayen		
	Shraban patra	Shraban Patra		
2	Triman Guchhait	Triman Guchhait		
3	Joydeep Saha			
4	Soumyadip Banerjee			

Kharagpur College
Department of Physics
Certificate Course on "Computer Programming using MATLAB & Python Language"
Attendance Sheet

Date : 23/06/2023

SL No.	Name of the Student	Date	Full Signature	Remarks
1	Tirthi Sen		Tirthi sen	
2	Shesadri sahoo		Shesadri sahoo	
3	Bratish Samtra		Bratish Samtra	
4	Ananda Mohan Baskkey		Ananda Mohan Baskkey	
5	Rajesh Samtra		Rajesh Samtra	
6	Rajanya Deb		Rajanya Deb	
7	Somudip Koley		Somudip Koley	
8	Somudip Maity		Somudip Maity	
9	Somudip Deb		Somudip Deb	
10	Somudip Mahanta		Somudip Mahanta	
11	Somudip Koley		Somudip Koley	
12	Indra Kumar Sahoo		Indra Kumar Sahoo	
13	Sanjit Mondal		Sanjit Mondal	
14	Prakash Maitra		Prakash Maitra	
15	Minamoy Chowdhury		Minamoy Chowdhury	
16	Anant Bara		Anant Bara	
17	Saikat Pal		Saikat Pal	
18	Manmoy Mondal		Manmoy Mondal	
19	SK Satish Saha		SK Satish Saha	
20	Debanu Das		Debanu Das	
21	Sudipto Kumar De		Sudipto Kumar De	
22	Soumitra Samanta		Soumitra Samanta	
23	Ankur Roy		Ankur Roy	
24	Animesh Maity		Animesh Maity	
25	Pradip Kumar Sahoo		Pradip Kumar Sahoo	
26	Sagarika Patra		Sagarika Patra	
27	Krishna Maity		Krishna Maity	
28	Amit Roy		Amit Roy	
29	Bipin Mondal		Bipin Mondal	
30	Shankar Jha		Shankar Jha	
31	Rama Maity		Rama Maity	
32	Soumitra Boral		Soumitra Boral	
33	Ravi Das		Ravi Das	
34	Amit Kumar		Amit Kumar	
35	Ananta Kumar Patra		Ananta Kumar Patra	
36	Anup Kumar Maitra		Anup Kumar Maitra	
37	Ananta Kumar		Ananta Kumar	
38	Debanu Das		Debanu Das	
39	Pragya Patra		Pragya Patra	
40	Bhuvan Jha		Bhuvan Jha	
41	Pradip Das		Pradip Das	
42	Soumitra Das		Soumitra Das	
43	Sayan Chakrabarty		Sayan Chakrabarty	
44	Ilamoy Jha		Ilamoy Jha	
45	Soumitra Das		Soumitra Das	
46	Murali Jha		Murali Jha	
47	Ananta Kumar		Ananta Kumar	
48	Krishna Jha		Krishna Jha	

Kharagpur College
Department of Physics
Certificate Course on "Computer Programming using MATLAB & Python Language"
Attendance Sheet

SL. No.	Name of the Student	Date	Full Signature	Remarks
50	Souvik Jana		Souvik Jana	
51	Sayan Dey		Sayan Dey	
52	Aranya Pariary		Aranya Pariary	
53	Rabindranath Manna		Rabindranath Manna	
54	Souvik acharya		Souvik Acharya	
55	Souvik Shee		Souvik Shee	
56	Rupam Day		Rupam Dey	
57	Sandip Dutta		Sandip Dutta	
58	Subhajit Khanra		Subhajit Khanra	

59	Somnath Gayen	Somnath Gayen		
60	Sintu Gayen	Sintu Gayen		
61	Shraban patra	Shraban Patra		
62	Triman Guchhait	Triman Guchhait		
63	Joydeep Saha			
64	Soumyadip Banerjee			

Kharagpur College
Department of Physics
Certificate Course on "Computer Programming using MATLAB & Python Language"

Attendance Sheet
 Date : 28/06/2023

SL. No.	Name of the Student	Date	Full Signature	Remarks
1	Tithi Sen		Tithi Sen	
2	Shesadri sahoo		Shesadri sahoo	
3	Bratish Santra		Bratish Santra	
4	Ananda Mohan Baskey		Ananda Mohan Baskey	
5	Rajesh Santra		Rajesh Santra	
6	Jayanta Deb		Jayanta Deb	
7	Somudip Koley		Somudip Koley	
8	Soumyadip Maity		Soumyadip Maity	
9	Jyotirmoy dey		Jyotirmoy dey	
10	Subhadip Mahakul		Subhadip Mahakul	
11	Subhayu Kuila		Subhayu Kuila	
12	Indra Kamal Sahoo		Indra Kamal Sahoo	
13	Sanjib Mandal		Sanjib Mandal	
14	Prakash Murmu		Prakash Murmu	
15	Mrinmoy Chowdhury		Mrinmoy Chowdhury	
16	Ankan Bera		Ankan Bera	
17	Saibesh Pal		Saibesh Pal	
18	Monomoy Mondal		Monomoy Mondal	
19	SK Sofiul Islam		SK Sofiul Islam	
20	Debjani Das		Debjani Das	
21	Supriyo Kumar De		Supriyo Kumar De	
22	Sourabh Samanta		Sourabh Samanta	
23	Aniket Roy		Aniket Roy	
24	Animesh Maity		Animesh Maity	
25	Pradip Kumar Sahoo		Pradip Kumar Sahoo	
26	Saptarshi Pahari		Saptarshi Pahari	
27	Kiranmay Maity		Kiranmay Maity	
28	Arijit Das		Arijit Das	
29	Biplab Mandal		Biplab Mandal	
30	Dipankar Dutta		Dipankar Dutta	
31	Rahul Manna		Rahul Manna	
32	Sourav Bagal		Sourav Bagal	
33	Rajat Das		Rajat Das	
34	Arijit Santra		Arijit Santra	
35	Anindya Sundar Patra		Anindya Sundar Patra	
36	Anup Kumar Murmu		Anup Kumar Murmu	
37	Arpan sahoo		Arpan sahoo	
38	Nabin Das		Nabin Das	
39	Parijat Patra		Parijat Patra	
40	Bikram Laha		Bikram Laha	
41	Pradip Das		Pradip Das	
42	Samiran Jana		Samiran Jana	
43	Sayan Chakraborty		Sayan Chakraborty	
44	Tanmoy sahu		Tanmoy sahu	
45	Dibyendu Roy		Dibyendu Roy	
46	Mitali Dhal		Mitali Dhal	
47	Anirban Jana		Anirban Jana	
48	Kalyan Khatua		Kalyan Khatua	
49	Subhrangshu Tunga		Subhrangshu Tunga	
50	Souvik Jana		Souvik Jana	
51	Savan Dev		Savan Dev	

Kharagpur College
Department of Physics
Certificate Course on "Computer Programming using MATLAB & Python Language"
Attendance Sheet

SL. No.	Name of the Student	Date	Full Signature	Remarks
50	Souvik Jana		Souvik Jana	
51	Sayan Dey		Sayan Dey	
52	Aranya Pariary		Aranya Pariary	
53	Rabindranath Manna		Rabindranath Manna	
54	Souvik acharya		Souvik Acharya	
55	Souvik Shee		Souvik Shee	
56	Rupam Day		Rupam Dey	
57	Sandip Dutta		Sandip Dutta	
58	Subhajit Khanra		Subhajit Khanra	

	Somnath Gayen	Somnath Gayen		
	Sintu Gayen	Sintu Gayen		
61	Shraban patra	Shraban Patra		
62	Triman Guchhait	Triman Guchhait		
63	Joydeep Saha			
64	Soumyadip Banerjee			

Kharagpur College
Department of Physics
Certificate Course on "Computer Programming using MATLAB & Python Language"

Attendance Sheet
Date : 30/06/2023

SL. No.	Name of the Student	Date	Full Signature	Remarks
1	Tithi Sen		Tithi Sen	
2	Shesadri sahoo		Shesadri sahoo.	
3	Bratish Santra		Bratish Santra	
4	Ananda Mohan Baskey		Ananda Mohan Baskey	
5	Rajesh Santra		Rajesh Santra.	
6	Jayanta Deb		Jayanta Deb	
7	Somudip Koley		Somudip Koley	
8	Soumyadip Maity		Soumyadip Maity	
9	Jyotirmoy dey			
10	Subhadip Mahakul		Subhadip Mahakul	
11	Subhayu Kuila		Subhayu Kuila	
12	Indra Kamal Sahoo		Indra Kamal Sahoo	
13	Sanjib Mandal		Sanjib Mandal.	
14	Prakash Murmu		Prakash Murmu.	
15	Mrinmoy Chowdhury		Mrinmoy Chowdhury	
16	Ankan Bera		Ankan Bera	
17	Saibesh Pal		Saibesh Pal	
18	Monomoy Mondal		Monomoy Mondal	
19	SK Sofiul Islam		SK Sofiul Islam.	
20	Debjani Das		Debjani Das	
21	Supriyo Kumar De		Supriyo Kumar De	
22	Sourabh Samanta		Sourabh Samanta	
23	Aniket Roy		Aniket Roy	
24	Animesh Maity			
25	Pradip Kumar Sahoo		Pradip Kumar Sahoo	
26	Saptarshi Pahari		Saptarshi Pahari	
27	Kiranmay Maity		Kiranmay Maity	
28	Arijit Das		Arijit Das	
29	Biplab Mandal		Biplab Mandal	
30	Dipankar Dutta		Dipankar Dutta.	
31	Rahul Manna			
32	Sourav Bagal		Sourav Bagal.	
33	Rajat Das		Rajat Das	
34	Arijit Santra		Arijit Santra	
35	Anindya Sundar Patra		Anindya Sundar Patra	
36	Anup Kumar Murmu			
37	Arpan sahoo		Arpan sahoo	
38	Nabin Das		Nabin Das	
39	Parijat Patra		Parijat Patra	
40	Bikram Laha		Bikram Laha	
41	Pradip Das		Pradip Das	
42	Samiran Jana		Samiran Jana	
43	Sayan Chakraborty		Sayan Chakraborty	
44	Tanmoy sahu		Tanmoy Sahu	
45	Dibyendu Roy		Dibyendu Roy	
46	Mitali Dhal		Mitali Dhal	
47	Anirban Jana		Anirban Jana	
48	Kalyan Khatua		Kalyan Khatua.	
49	Subhrangshu Tunga		Subhrangshu Tunga	
50	Souvik Jana			
51	Savan Dev			

Kharagpur College
Department of Physics
Certificate Course on "Computer Programming using MATLAB & Python Language"
Attendance Sheet

SL. No.	Name of the Student	Date	Full Signature	Remarks
50	Souvik Jana		Souvik Jana	
51	Sayan Dey		Sayan Dey	
52	Aranya Pariary		Aranya Pariary	
53	Rabindranath Manna		Rabindranath Manna	
54	Souvik acharya		Souvik Acharya	
55	Souvik Shee		Souvik Shee	
56	Rupam Day		Rupam Dey	
57	Sandip Dutta		Sandip Dutta	
58	Subhajit Khanra		Subhajit Khanra	

	Somnath Gayen	Somnath Gayen		
	Sintu Gayen	Sintu Gayen		
61	Shraban patra	Shraban Patra		
62	Triman Guchhait	Triman Guchhait		
63	Joydeep Saha			
64	Soumyadip Banerjee			

~~Date: 01/06/2023~~

Kharagpur College
Department of Physics
Certificate Course on "Computer Programming using MATLAB & Python Language"

Attendance Sheet

Date: 04/07/2023

SL. No.	Name of the Student	Date	Full Signature	Remarks
1	Tithi Sen		Tithi Sen	
2	Shesadri sahoo		Shesadol sahoo.	
3	Bratish Santra		Bratish Santra	
4	Ananda Mohan Baskey		Ananda Mohan Baskey	
5	Rajesh Santra			
6	Jayanta Deb		Jayanta Deb	
7	Somudip Koley		Somudip Koley	
8	Soumyadip Maity		Soumyadip Maity	
9	Jyotirmoy dey			
10	Subhadip Mahakul		Subhadip Mahakul	
11	Subhayu Kuila		Subhayu Kuila	
12	Indra Kamal Sahoo		Indra Kamal Sahoo	
13	Sanjib Mandal		Sanjib Mandal	
14	Prakash Murmu		Prakash Murmu	
15	Mrinmoy Chowdhury		Mrinmoy Chowdhury	
16	Ankan Bera		Ankan Bera	
17	Saibesh Pal		Saibesh Pal	
18	Monomoy Mondal		Monomoy Mondal	
19	SK Sofiul Islam		SK Sofiul Islam	
20	Debjani Das		Debjani Das	
21	Supriyo Kumar De		Supriyo Kumar De	
22	Sourabh Samanta		Sourabh Samanta	
23	Aniket Roy		Aniket Roy	
24	Animesh Maity			
25	Pradip Kumar Sahoo		Pradip Kumar Sahoo	
26	Saptarshi Pahari		Saptarshi Pahari	
27	Kiranmay Maity		Kiranmay Maity	
28	Arijit Das		Arijit Das	
29	Biplab Mandal		Biplab Mandal	
30	Dipankar Dutta		Dipankar Dutta	
31	Rahul Manna			
32	Sourav Bagal		Sourav Bagal	
33	Rajat Das		Rajat Das	
34	Arijit Santra		Arijit Santra	
35	Anindya Sundar Patra		Anindya Sundar Patra.	
36	Anup Kumar Murmu			
37	Arpan sahoo		Arpan Sahoo	
38	Nabin Das		Nabin Das	
39	Parijat Patra		Parijat Patra	
40	Bikram Laha		Bikram Laha	
41	Pradip Das		Pradip Das	
42	Samiran Jana		Samiran Jana	
43	Sayan Chakraborty		Sayan Chakraborty	
44	Tanmoy sahu		Tanmoy Sahu	
45	Dibyendu Roy		Dibyendu Roy	
46	Mitali Dhal		Mitali Dhal	
47	Anirban Jana		Anirban Jana	
48	Kalyan Khatua		Kalyan Khatua	
49	Subhrangshu Tunga		Subhrangshu Tunga	
50	Souvik Jana			
51	Sayan Dey			

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Attendance Sheet

SL. No.	Name of the Student	Date	Full Signature	Remarks
50	Souvik Jana		Souvik Jana	
51	Sayan Dey		Sayan Dey	
52	Aranya Pariary		Aranya Pariary	
53	Rabindranath Manna		Rabindranath Manna	
54	Souvik acharya		Souvik Acharya	
55	Souvik Shee		Souvik Shee	
56	Rupam Day		Rupam Day	
57	Sandip Dutta		Sandip Dutta	
58	Subhajit Khanra		Subhajit Khanra	

	Somnath Gayen	Somnath Gayen		
60	Sintu Gayen	Sintu Gayen		
61	Shraban patra	Shraban Patra		
62	Triman Guchhait	Triman Guchhait		
63	Joydeep Saha			
64	Soumyadip Banerjee			

St. No. : **KC/Phys/2023/05/021**

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This is to certify that.....**Debjeni Das (4th Semester)**.....

has successfully completed**10 Days (30 Hours)**.....

Certificate Course in**Computer Programming using MATLAB & Python Language**.....

held between**29-May-2023**..... and**10-July-2023**..... organized by.....

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Co-ordinator
(Kharagpur College)

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(Kharagpur College)

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This is to certify that.....

has successfully completed 10 Days (30 Hours).....

Certificate Course in Computer Programming using MATLAB & Python Language.....

held between 29-May-2023 and 10-July-2023 organized by.....

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*Co-ordinator
(Kharagpur College)*

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*Principal
(Kharagpur College)*

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This is to certify that..... **Aniket Roy (6th Semester)**

has successfully completed **10 Days (30 Hours)**.....

Certificate Course in **Computer Programming using MATLAB & Python Language**.....

held between **29-May-2023** and **10-July-2023** organized by.....

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Co-ordinator
(Kharagpur College)

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(Kharagpur College)