



MUGBERIA GANGADHAR MAHAVIDYALAYA

P.O.—BHUPATINAGAR, Dist.—PURBA MEDINIPUR, PIN.—721425, WEST BENGAL, INDIA

NAAC Re-Accredited B+ Level Govt. aided College

CPE (Under UGC XII Plan) & NCTE Approved Institutions

DBT Star College Scheme Award Recipient

E-mail : mugberia_college@rediffmail.com // www.mugberiagangadharmahavidyalaya.ac.in

Report
on
A Skill Development Certificate Course
On
“MATLAB”

Course Period: 10th May 2022– 16th June 2022



**Organized
by**

Department of Mathematics (UG & PG)

Under DBT Star College Strengthening Scheme

MugberiaGangadharMahavidyalaya

ACCREDITED BY NAAC WITH GRADE B+

Affiliated

to

Vidyasagar University

Bhupatinagar, Purba Medinipur – 721425

Minutes of the Departmental meeting collaboration with DBT held on 03.05.2022

Members present:

1. Dr. KalipadaMaity, HOD, Associate Prof., Dept. of Mathematics
2. Dr. Manoranjan De, Assistant Prof., Dept. of Mathematics
3. Mr. Suman Kumar Giri, SACT Teacher, Dept. of Mathematics.
4. Mr. Debraj Manna, SACT Teacher, Dept. of Mathematics.
5. Mr. Hironmoyee Manna, SACT Teacher, Dept. of Mathematics.
6. Mr. Bikash Panda, SACT Teacher, Dept. of Mathematics.
7. Mr. SantuHati, Contractual Teacher, Dept. of Mathematics.
8. Mr. Goutam Kumar Mandal, Contractual Teacher, Dept. of Mathematics.
9. Mr. SubhamMaity, Contractual Teacher, Dept. of Mathematics.

A short meeting was arranged at 3 pm regarding the implementation of certificate course on “MATLAB” in our Department. All teachers of the department joined the meeting in time. **Dr. KalipadaMaity, HOD of Dept. of Mathematics** chaired the meeting.

Decision taken in the meeting is:

- (1) It is decided that **Dr. KalipadaMaity** will be coordinator of this course.
- (2) The course period will be scheduled from **10th May 2022–16th June 2022.**

It is decided that the course will be delivered by lecture, interaction and doubt clearance along with an examination on topic related to MATLAB. Course is conduct for UG-III sem. Course access fee for the student is decided as **Rs. 200/-**. HOD will forward the matter for approval of this course from Academic Sub-committee. Teachers are requested to prepare a routine for smooth running of course.

The meeting comes to end with a vote of thanks.



MUGBERIA GANGADHAR MAHAVIDYALAYA

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Date 03.05.2022

Notice

This is to hereby notify all the students that the dept. of Mathematics, Mugberia Gangadhar Mahavidyalaya is going to run a Skill Development certificate course on “MATLAB” from 10th May 2022 to 16th June 2022 through offline mode. The course will be delivered by lecture, Computer Lab practices, Assignment Solve, interaction and doubt clearance along with a examination on topic related to Matlab. The course will be conduct for UG-III sem. Course access fee for the student is decided as Rs. 200/-. All the students of our college especially of the Dept. of Mathematics UG-III SEM are requested to be present in this course.


Dr. Swapan Kumar Misra

Principal

Mugberia Gangadhar Mahavidyalaya

Principal

Mugberia Gangadhar Mahavidyalaya



A Skill Development Certificate Course
On
“MATLAB”
Course period: 10th May 2022– 16th June 2022

Course Coordinators:

- 1) Dr. Kalipada Maity, HOD, Associate Prof., Dept. of Mathematics

Faculty Team:

- 1) Dr. Swapan Kumar Misra, Chair Person & Principal, MugberiaGangadharMahavidyalaya
- 2) Dr. Kalipada Maity, Associate Professor, Head, Department of Mathematics (UG & PG), MugberiaGangadharMahavidyalaya
- 3) Dr. Manoranjan De, Assistant Professor, Department of Mathematics (UG & PG) MugberiaGangadharMahavidyalaya
- 4) Mr. Bikash Panda, SACT Teacher, Dept. of Mathematics.
- 5) Mr. Suman Kumar Giri, SACT Teacher, Dept. of Mathematics.
- 6) Mr. Debraj Manna, SACT Teacher, Dept. of Mathematics.
- 7) Mr. Hironmoyee Manna, SACT Teacher, Dept. of Mathematics.
- 8) Mr. Santu Hati, Contractual Teacher, Dept. of Mathematics.
- 9) Mr. Goutam Kumar Mandal, Contractual Teacher, Dept. of Mathematics.
- 10) Mr. Subham Maity, Contractual Teacher, Dept. of Mathematics.

Course Duration: 30 hrs

Delivery Mode: Offline

OBJECTIVES:

The overall **aim** of the course would be to gain the skills on MATLAB, aspiring students to know about high level computer language on MATLAB. The **specific objectives** of the course are-

❖ MATLAB is considered as one of the most important tools and modern computer language, and this course enable the students to learn many of MATLAB commands and how to use them in programming to solve many problems in different mathematical subjects, specially in numerical analysis and other subjects which connected to computer oriented mathematics.

COURSE LEARNING OUTCOME

Knowledge: The course aims to give students a broad understanding of the most important tools and modern computer language, and this course enable the students to learn many of MATLAB commands. This course gives the knowledge to solve many problems in different mathematical subjects, specially in numerical analysis.

Competence: Students should become competent in planning, conducting, evaluating and presenting a research project.

CERTIFICATE OF PARTICIPATION:

The participants will be provided Certificates on successful completion of the course. It is mandatory for all participants to attend all the classes.

REGISTRATION FEE: Rs. 200.00 rupees Only

VENUE: Mathematics Lab, Department of Mathematics (UG & PG), Mugberia Gangadhar Mahavidyalaya.

NOTE: The Evaluation will be done by MCQ test and Project Report on MATLAB submission. Attendance is Compulsory.

Course specific outcome: Develop the basic concept of "MATLAB".

Curriculum approved by: Departmental Committee & academic sub-committee, Mugberia Gangadhar Mahavidyalaya.

Syllabus of "MATLAB"

Programming in MATLAB: Basic concept on MATLAB. The Matlab workspace, data types, Variables, Assignment statements, arrays, sets, matrices, Introduction to M – file scripts, Input and output functions, conditional control statements, Loop control statements, break, continue and return statements.

List of practical (using any software)

1. Calculate the sum $1/1 + 1/2 + 1/3 + 1/4 + \dots + 1/N$.
2. Enter 100 integers into an array and sort them in an ascending order.
3. Solution of transcendental and algebraic equations by i) Bisection method ii) Newton Raphson method. iii) Secant method. iv) Regula Falsi method.
4. Solution of system of linear equations i) LU decomposition method ii) Gaussian elimination method iii) Gauss-Jacobi method iv) Gauss-Seidel method

5. Interpolation i) Lagrange Interpolation ii) Newton Interpolation
6. Numerical Integration i) Trapezoidal Rule ii) Simpson's one third rule iii) Weddle's Rule iv) Gauss Quadrature
7. Method of finding Eigenvalue by Power method
8. Fitting a Polynomial Function
9. Solution of ordinary differential equations i) Euler method ii) Modified Euler method iii) RungeKutta method

REFERENCES

1. Gilat A. MATLAB: an Introduction with Applications. New York: Wiley; 2008.
2. Palm III WJ. Introduction to MATLAB for Engineers. New York: McGraw-Hill; 2011.

A Skill Development Certificate Course

On

"MATLAB "

Organised by

Department of Mathematics (U.G & P.G)

Under DBT Star College Strengthening Scheme

MugberiaGangadharMahavidyalaya

Date of Inauguration: 10th May, 2022

Eligibility: Students of Mathematics (Hons) Sem.- III only

Duration: 30 Hours

Registration Fee: Rs. 200/-

Dr. Swapan Kumar Misra, Principal, MugberiaGangadharMahavidyalaya

Dr. Kalipada Maity, Coordinator, HOD & Associate Professor, Dept. of Mathematics

To enroll in this program, intended participants are requested to contact with Dr. Kalipada Maity, HOD & Associate Professor, Dept. of Mathematics, MugberiaGangadharMahavidyalaya

Email : kmaity78@gmail.com

Phone No : 9434611354

Skill Development Certificate Course on MATLAB

10th May 2022– 16th June 2022

Organized by Dept of Mathematics (UG & PG)

List of register Students

Sl. No.	Student Name	UG(SEM)	Amount Paid
1	Somsankar Mandal	SEM-III	Rs. 200.00
2	Suman Das	SEM-III	Rs. 200.00
3	Amiyendra Maiti	SEM-III	Rs. 200.00
4	Soumyadeep Bej	SEM-III	Rs. 200.00
5	Jatindranath Samanta	SEM-III	Rs. 200.00

6	Sudipta Mondal	SEM-III	Rs. 200.00
7	Ranajit Mandal	SEM-III	Rs. 200.00
8	Bachaspati Mondal	SEM-III	Rs. 200.00
9	Atanu Maity	SEM-III	Rs. 200.00
10	Shubhajit Giri	SEM-III	Rs. 200.00
11	Surajit Maity	SEM-III	Rs. 200.00
12	Ayan Pradhan	SEM-III	Rs. 200.00
13	Rajkumar Karan	SEM-III	Rs. 200.00
14	Soumitra Das	SEM-III	Rs. 200.00
15	Bidisha Sasmal	SEM-III	Rs. 200.00
16	Sonali Mandal	SEM-III	Rs. 200.00
17	Sudeshna Maity	SEM-III	Rs. 200.00
18	Annesha Khatua	SEM-III	Rs. 200.00
19	Paramita Maity	SEM-III	Rs. 200.00
20	Megha Rani Sahoo	SEM-III	Rs. 200.00
21	Gaurangi Pal	SEM-III	Rs. 200.00
22	Subhadip Mahapatra	SEM-III	Rs. 200.00
23	Amit Patra	SEM-III	Rs. 200.00
24	Raju Chaulia	SEM-III	Rs. 200.00
25	Ranita Bera	SEM-III	Rs. 200.00
26	Rupali Roy	SEM-III	Rs. 200.00
27	Samar Dolai	SEM-III	Rs. 200.00
28	Shyamal Bar	SEM-III	Rs. 200.00
29	Soma Patra	SEM-III	Rs. 200.00
30	Souvik Kamila	SEM-III	Rs. 200.00
31	Subhankar Das	SEM-III	Rs. 200.00
32	Susanta Mandi	SEM-III	Rs. 200.00
33	Susmita Bera	SEM-III	Rs. 200.00
34	Uttam Manna	SEM-III	Rs. 200.00

Skill Development Certificate Course on MATLAB

10th May 2022– 16th June 2022

Organized by Dept of Mathematics (UG & PG)

MugberiaGangadharMahavidyalaya

Student Class Attendance Record

Skill Development Certificate
Course on MAT LAB

REGISTER OF ATTEND-
FOR THE MONTH
ATTEND

Serial No.	Roll No.	NAME OF PUPILS	Sr No. & dt of Adm in the Adm. Reg.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
				10/5/22	11/5/22	12/5/22	13/5/22	14/5/22	15/5/22	16/5/22	17/5/22	18/5/22	19/5/22	20/5/22	21/5/22	22/5/22	23/5/22	24/5/22	25/5/22	26/5/22	27/5/22
1.		Somsankar Mandal		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
2.		Suman Das		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
3.		Aniyendra Maiti		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
4.		Soumyadeep B		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
5.		Jatindranath Samanta		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
6.		Sudipta Mondal		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
7.		Ranajit Mandal		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
8.		Atanu Maity		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
9.		Bachaspati Mondal		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
10.		Shubhajit Giri		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
11.		Surajit Maity		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
12.		Ayan Pradhan		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
13.		Rajkumar Kagan		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
14.		Soumitra Das		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
15.		Bidisha Sasmal		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
16.		Somali Mandal		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
17.		Sudeshna Maity		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
18.		Annesha Khatua		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
19.		Parabrita Maity		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
20.		Megha Rani Sahoo		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
21.		Gaurangi Pal		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
22.		Subhadip Mahapatra		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
23.		Amit Patra		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
24.																					

[Signature]
10/05/2022

[Signature]
Principal
Mugberia Gangadhar Mahavidyalaya

10/05/2022

[Signature]
16/06/2022

[Signature]
Principal
Mugberia Gangadhar Mahavidyalaya

10/05/2022

No. Present daily ...

No. Absent daily ...

Certificate Distribution Ceremony of MATLAB

16th January 2023

Organized by

Dept of Mathematics (UG & PG)

MugberiaGangadharMahavidyalaya

The list of Distributed Certificates on MATLAB







	A Skill Development Certificate Course on MATLAB from 10.05.2022 to 16.06.2022	
 Organized by		
The Department of Mathematics, MUGBERIA GANGADHAR MAHAVIDYALAYA Bhupatinagar:: Purba Medinipur :: West Bengal ::721425		
 Certificate		
<p>This is to certify that Shri/Smt/Ms <u>Suman Das</u>has successfully participated and completed 30 hours for the A Skill Development Certificate Course on MATLAB by the Department of Mathematics, Mugberia Gangadhar Mahavidyalaya on and from 10.05.2022 to 16.06.2022.</p>		
<p>Date: 16th June 2022</p> <p> Dr. Kalipada Maity Course Coordinator Mugberia Gangadhar Mahavidyalaya</p>	<p> Dr. Swapan Kumar Misra Principal Mugberia Gangadhar Mahavidyalaya</p>	



**A Skill Development Certificate Course
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**The Department of Mathematics,
MUGBERIA GANGADHAR MAHAVIDYALAYA
Bhupatinagar:: Purba Medinipur :: West Bengal ::721425**

Certificate


This is to certify that Shri/Smt/Ms Surajit Maity has successfully participated and completed 30 hours for the A Skill Development Certificate Course on MATLAB by the Department of Mathematics, Mugberia Gangadhar Mahavidyalaya on and from 10.05.2022 to 16.06.2022.

Date: 16th June 2022


Dr. Kalipada Maity
Course Coordinator
Mugberia Gangadhar Mahavidyalaya


Dr. Swapan Kumar Misra
Principal
Mugberia Gangadhar Mahavidyalaya




20.06.2022
Principal
Mugberia Gangadhar Mahavidyalaya