



TURKU HANSDA LAPSA HEMRAM MAHAVIDYALAY

(A Govt. Aided General Degree College affiliated to Burdwan University and registered u/s 2(f) & 12(B) of UGC Act, 1956)
[Established in 2006 and Accredited 'B' by NAAC in 2016]

Vill-Madian, Mallarpur

PIN 731216, West Bengal

website- www.thlhmahavidyalay.ac.in



PO-Ganpur, Birbhum

Phone & Fax 03461-262175

email- tlmprincipal@gmail.com

Criterion 5.2.1 – ICT/computing skills

Documents:

a. *Scientific Computing Using Mat Lab*

b. *Course on ICT for Effective Learning*

Sankari
Teacher-in-charge
THLH Mahavidyalay
Madian, Mallarpur, Gonpur
Birbhum, Pin- 731216, W.B.



TURKU HANSDA LAPSA HEMRAM MAHAVIDYALAY



CAPACITY DEVELOPMENT AND SKILL ENHANCEMENT COURSE

ON

SCIENTIFIC COMPUTING USING MATLAB

ORGANISED BY THE DEPARTMENT OF MATHEMATICS

FROM 15/02/2022 TO 10/03/2022

Sanku
Teacher-in-charge
THLH Mahavidyalaya
Median, Mallerpur, Gonpur
Birbhun, Pin- 731216, W.B.

TURKU HANSDA LAPSA HEMRAM MAHAVIDYALAY



DEPARTMENT OF MATHEMATICS

Date of Establishment: - 2009

Departmental website:- <https://www.mathematics.thlhm.com>

Departmental Mail Id. :- mathematics.thlhm@gmail.com

Contact info: - Madian, Mallarpur, Gonpur, West Bengal -731216

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SEEKING PERMISSION FROM PRINCIPAL:

To,
The Principal,
THLH Mahavidyalay
Mallarpur, Birbhum.

Subject - Approval for an capacity development and skill enhancement programme proposal on '**Scientific Computing using MATLAB**'.

Type your text

I hope this letter finds you in good health and high spirits. I am CHANDAN MONDAL,, serving as SACT-II in the Mathematics Department. I am writing to seek your esteemed approval to organize a capacity development and skill enhancement program titled "Scientific Computing using MATLAB," which is proposed to be held on 15th February through offline/online platform.

The program aims to equip participants with essential skills in scientific computing, an area that is increasingly becoming integral to research and development across various disciplines. The use of MATLAB software for computational tasks offers a robust platform for students and faculty alike to enhance their analytical abilities.

We have planned a series of interactive sessions, hands-on workshops, and expert talks to provide a comprehensive learning experience. The program is designed to cater to maximum 100 participants from various departments, and we are committed to ensuring its smooth and successful execution.

In light of the above, I kindly request your permission to proceed with the necessary arrangements for the program. Your support in this academic endeavour will be invaluable. I am looking forward to a positive response and am available for any further discussion or details you may require.

Thank you for considering this proposal. I am available for any further discussions or clarifications.

Yours Faithfully

Chandan Mondal

Date - 03/02/2022

Place - Mallarpur



Course Co-ordinator
Add-on/Capacity Development &
Skill Enhancement Activity
THLH MAHAVIDYALAY
Madian, Mollarpur, Birbhum-731216

Chandan Mondal
Teacher-in-charge
THLH Mahavidyalay
Madian, Mallarpur, Gonpur
Birbhum, Pin-731216, W.B.



1.2 PERMISSION FROM PRINCIPAL:

Meeting Resolution to Conduct capacity development and skill enhancement programme on 'Scientific Computing using MATLAB':

Date: 07.02.2022

Resolution to Conduct a Capacity Development and Skill Enhancement Program on Scientific Computing using MATLAB

WHEREAS, the Board of Directors recognizes the need for capacity development and skill enhancement in the field of Scientific Computing using MATLAB; and

WHEREAS, the Board acknowledges that such a program will contribute to the academic and professional growth of the students and faculty; and

WHEREAS, the Board understands the importance of staying updated with the latest advancements in scientific computing and MATLAB's applications;

NOW, THEREFORE, BE IT RESOLVED, that THLH Mahavidyalay will conduct a capacity development and skill enhancement program on Scientific Computing using MATLAB.

BE IT FURTHER RESOLVED, that the program will cover the following topics, as structured in the course:

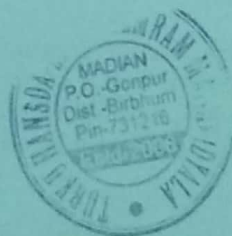
- Introduction to MATLAB
- Error estimation and methods of roots finding
- Order of convergence of various methods
- Solving System of Linear Algebraic equations
- Curve fitting and Interpolation
- Numerical differentiation and integration
- Numerical solution to ordinary differential equations (ODEs)

BE IT FURTHER RESOLVED, that the program will be of 3 weeks duration, targeting any students of our college, and will commence on 15.02.2022.

BE IT FURTHER RESOLVED, that the Board authorizes the Science Department to take all necessary steps to implement this program, including the preparation of the curriculum, engagement of instructors, and arrangement of resources.

The undersigned hereby certifies that the above resolution was duly adopted by Dr. Amit Kumar Chakrabarty, PRINCIPAL OF THLHM at a meeting held on 03.02.2022.

Principal
Dr Amit Kumar Chakrabarty



Principal
THLH Mahavidyalay
Madian, Mallarpur, Gonpur
Birbhum, W.B.

Teacher-in-charge
THLH Mahavidyalay
Madian, Mallarpur, Gonpur
Birbhum, Pin- 731216, W.B.

1.3 COURSE VISION:

Course Details: -

- **Course Title:** Scientific Computing using MATLAB.
- **Duration:** 20 Days
- **Objective:** The objective of a course in Scientific Computing using MATLAB is to equip students with the skills necessary to apply computational methods and MATLAB programming to solve scientific problems.
- **Course Date:** 15/02/2022 to 10/03/2022
- **Course Objectives:**
 - To Introduce MATLAB: Provide an understanding of the MATLAB environment and its applications in scientific computing.
 - To Teach Numerical Methods: Educate students on various numerical techniques for data handling and solving differential equations.
 - To Enhance Problem-Solving Skills: Develop the ability to tackle complex mathematical problems using MATLAB's computational capabilities.
 - To Prepare for Research: Prepare students for research projects that require numerical analysis and scientific computation.
 - To Offer Practical Experience: Offer hands-on experience with MATLAB through exercises and projects that reinforce the theoretical knowledge gained.

This course is typically aimed at undergraduate and postgraduate students who have some prior knowledge of programming and are interested in pursuing further studies or careers in fields that involve extensive data analysis and numerical problem-solving.

Expected Outcomes:

- Enhanced Computational Skills: Gain proficiency in MATLAB, a powerful tool for numerical computation.
- Research Applications: Ability to apply numerical methods to solve complex scientific problems.
- Data Analysis Proficiency: Improved skills in data visualization and interpretation.
- Career Advancement: Qualification for roles requiring expertise in scientific computing and data analysis.

Course Syllabus -

- Introduction to MATLAB: Familiarization with the MATLAB environment and basic functions.
- Error Estimation: Techniques for assessing the accuracy of computational methods.
- Root Finding Methods: Algorithms for solving equations numerically.
- Linear Algebraic Equations: Methods for solving systems of equations.
- Curve Fitting and Interpolation: Techniques for modelling data.
- Numerical Differentiation and Integration: Approaches for approximating derivatives and integrals.
- Ordinary Differential Equations (ODEs): Methods for solving ODEs numerically.

Course Teachers:

- Prof. Sewli Chatterjee, Assistant Professor, THLH Mahavidyalay.
- Prof. Amit, Assistant Professor, THLH Mahavidyalay.
- Chandan Mondal, SACT, THLH Mahavidyalay.
- Prof Wasim Raja, Assistant Professor, THLH Mahavidyalay

Chandan Mondal

Course Co-ordinator
Add-on/Capacity Development &
Skill Enhancement Activity
THLH MAHAVIDYALAY
Madian, Mallarpur, Birbhum-731216



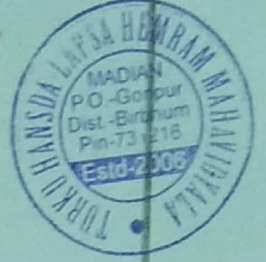
Dr Amit Kumar Chakrabarty

Principal
Dr Amit Kumar Chakrabarty

Principal
THLH Mahavidyalay
Madian, Mallarpur, Gonpur
Birbhum, W.B.

Srinivas
Teacher-in-charge
THLH Mahavidyalay
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Date- 07/02/2022

NOTICE

CAPACITY DEVELOPMENT AND SKILL ENHANCEMENT COURSE (2022-2023)

We are excited to announce the commencement of the Capacity Development and Skill Enhancement Course on **Scientific Computing using MATLAB** at our college. This course aims to equip you with valuable skills in automating tasks, enhancing Excel functionality, and creating custom solutions using MATLAB. Students from various disciplines who wish to enhance Computing skills and explore automation possibilities can join the course. All are requested to apply and enrol themselves to the aforementioned Course within 12th February 2022.

Course Duration- 20 Days (40 hours).

Tentative Date of Starting the Course - 15/02/2022.

Samdan Mondal
Course Co-ordinator
Add-on/Capacity Development &
Skill Enhancement Activity
THLH MAHAVIDYALAY
Madian, Mallarpur, Birbhum-731216



Dr Amit Kumar Chakrabarty

Principal
Dr Amit Kumar Chakrabarty

Principal
THLH Mahavidyalay
Madian, Mallarpur, Gonpur
Birbhum, W.B

Teacher-in-charge
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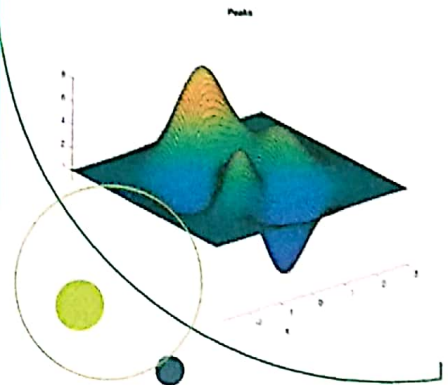
COURSE SYLLABUS

1. Introduction to MATLAB
2. Error estimation and methods of roots finding
3. Order of convergence of various methods
4. Solving System of Linear Algebraic equations
5. Curve fitting and Interpolation
6. Numerical differentiation and integration
7. Numerical solution to ordinary differential equations (ODEs)

COURSE DURATION

Duration of the course is 20 Days (Twenty Days), from 13/01/2022 to 06/02/2022
Class will be started from 10.30 am to 12.30 pm.

Any students of THLHM from any stream can apply the capacity development and skill enhancement course with free of cost.



OBJECTIVE

To Introduce MATLAB: Provide an understanding of the MATLAB environment and its applications in scientific computing.

To Teach Numerical Methods: Educate students on various numerical techniques for data handling and solving differential equations.

To Enhance Problem-Solving Skills: Develop the ability to tackle complex mathematical problems using MATLAB's computational capabilities.

To Prepare for Research: Prepare students for research projects that require numerical analysis and scientific computation.

To Offer Practical Experience: Offer hands-on experience with MATLAB through exercises and projects that reinforce the theoretical knowledge gained.



Sunil
Teacher-in-charge
THLH Mahavidyalaya
Madian, Mallarpur, Gonpur
Birbhum, Pin- 731216, W.B.

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Date- 15/02/2022

'Scientific Computing using MATLAB'

List of Enrolled Students

Sl. No.	Registration No.	Name of the Students	Category	Email No.	Stream
1	202001034215	Bhaskar Mondal	Unreserved	bhaskar30p@gmail.com	MTMH
2	202001034216	Pradip Kumar Dey	Unreserved	pradipkumardey5050@gmail.com	MTMH
3	202001034217	Pritam Das	Unreserved	pritam123@gmail.com	MTMH
4	202001034218	Pritam Roy	Unreserved	roypritamrph@gmail.com	MTMH
5	202001034219	Sankhadeep Mukherjee	Unreserved	sdmukherjee65@gmail.com	MTMH
6	202001034220	Subal Pal	OBC-B	patsubal86@gmail.com	MTMH
7	202001034221	Subhodip De	OBC-B	subhodipde2002@gmail.com	MTMH
8	202101043307	Suman Pal	OBC-B	thesumanpal2003@gmail.com	MTMH
9	202101043309	Sushobhan Ghosh	Unreserved	ghoshsuhobhan03@gmail.com	MTMH
10	202101043308	Deepsikha Dey	Unreserved	deepsikha2092003@gmail.com	MTMH
11	202101043304	Mintu Pramanik	OBC-B	mintupramanik129@gmail.com	MTMH
12	202101043305	Najma Khatun	OBC-A	najukhatun2004@gmail.com	MTMH
13	202101043303	Nilkanta Bagdi	SC	nilkantabagdi3@gmail.com	MTMH
14	202101043306	Saikat Choudhury	OBC-B	saikatChoudhury19@gmail.com	MTMH
15	202101043312	Sourin Halder	Unreserved	sourinhalder2@gmail.com	MTMH
16	202201037466	Suparna Ghosh	Unreserved	mondalpulser@gmail.com	MTMH
17	202201037469	Uttiyo Choudhury	OBC-B	uliyochoudhury2030@gmail.com	MTMG
18	202201037471	Bashav Sutradhar	OBC-B	bashavsutradhar4@gmail.com	MTMH
19	202201037469	Rocki Mondal	SC	rockimondal4@gmail.com	MTMH
20	202201037471	Somnath Bhandari	OBC-B	somnathbhandari.bp@gmail.com	MTMH

Chandan Mondal

Course Co-ordinator
Add-on/Capacity Development
Skill Enhancement Activity
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Madian, Mallarpur, Birbhum-731216



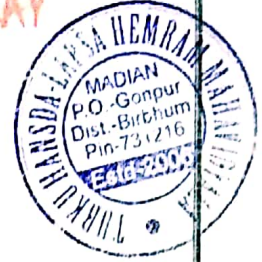
Dr Amit Kumar Chakrabarty

Principal
Dr Amit Kumar Chakrabarty

Principal
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Somnath Bhandari
Teacher-in-charge
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Date- 12/02/2022

NOTICE

This is to inform all the students enrolled for capacity development and skill enhancement on 'Scientific Computing using MATLAB' that the course will Start on 15/02/2022. Following are the details of the Course.

Course date – 15/02/2022 to 10/03/2022

Time Schedule -

Time	Platform
10.30 a.m. - 12.30 p.m.	Google meet(for online class)and classroom

Samiran Mondal

Course Co-ordinator for
Add-on/Capacity Development &
Skill Enhancement Activity
THLH MAHAVIDYALAY
Madian, Mallarpur, Birbhum-731216



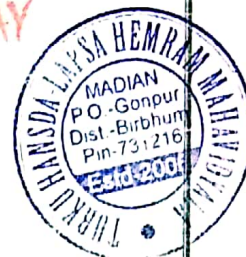
Dr Amit Kumar Chakrabarty

Principal
Dr Amit Kumar Chakrabarty

Principal
THLH Mahavidyalay
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Sanku
Teacher-in-charge
THLH Mahavidyalay
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Date- 12/02/2022

NOTICE

Our college will conduct Capacity Development & Skill Enhancement activity as noticed previously for all semesters students. Please refer to the provided routine for the course.

Sl	Content	Teacher
1.	Introduction to MATLAB: Familiarization with the MATLAB environment and basic functions.	Prof. Chandan Mondal
2.	Error Estimation: Techniques for assessing the accuracy of computational methods.	Prof. Wasim Raja
3.	Root Finding Methods: Algorithms for solving equations numerically.	
4.	Linear Algebraic Equations: Methods for solving systems of equations.	
5.	Curve Fitting and Interpolation: Techniques for modelling data.	Prof. Amit Chandra Das
6.	Numerical Differentiation and Integration: Approaches for approximating derivatives and integrals.	Prof. Sewli Chatterjee
7.	Ordinary Differential Equations (ODEs): Methods for solving ODEs numerically.	
8.	Introduction to MATLAB: Familiarization with the MATLAB environment and basic functions.	

Chandan Mondal

Course Co-ordinator for
Add-on/Capacity Development &
Skill Enhancement Activity
TURKU HANSDA LAPSA HEMRAM MAHAVIDYALAY
Madian, Mallarpur, Gonpur, West-Bengal 731216



Dr. Amit Kumar Chakrabarty

Principal
Dr Amit Kumar Chakrabarty
Principal
THLH Mahavidyalay
Madian, Mallarpur, Gonpur
Birbhum, W.B

Sewli Chatterjee

Teacher-in-charge
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Birbhum, Pin- 731216 W.B.


CAPACITY DEVELOPMENT AND SKILL ENHANCEMENT (2022-2023)

'SCIENTIFIC COMPUTING USING MATLAB'



Attendance of the Candidates -

Sl No	Name	13-01-2022	14-01-2022	15-01-2022	17-01-2022	18-01-2022	19-01-2022	20-01-2022	21-01-2022	22-01-2022	24-01-2022
1	BHASKAR MONDAL	P	P	P	P	P	P	P	P	P	P
2	PRADIP KUMAR DEY	P	P	P	AB	P	P	P	P	P	P
3	PRITAM DAS	P	AB	AB	P	P	P	AB	P	P	P
4	PRITAM ROY	P	P	P	P	P	P	P	AB	P	P
5	SANKHADEEP MUKHERJEE	P	P	P	P	P	P	P	P	P	P
6	SUBAL PAL	P	P	P	P	P	AB	P	P	P	P
7	SUBHODIP DE	P	P	P	P	AB	AB	AB	P	P	AB
8	SUMAN PAL	P	P	P	P	P	P	P	P	P	P
9	SUSHOBHAN GHOSH	P	P	P	P	AB	P	P	P	P	P
10	SOURIN HALDER	P	P	P	P	P	P	P	P	P	P
11	NILKANTA BAGDI	P	P	P	P	AB	P	P	P	P	P
12	SAIKAT CHOUDHURY	P	P	P	P	P	P	AB	P	P	P
13	SUPARNA GHOSH	P	P	P	P	P	AB	P	P	P	P
14	DEEPSIKHA DEY	P	P	P	P	P	P	P	P	P	P
15	NAJMA KHATUN	P	P	P	P	P	P	P	P	P	P
16	MINTU PRAMANIK	P	P	P	P	P	P	P	P	P	P
17	UTTIYO CHOUDHURY	P	P	P	AB	AB	P	P	P	P	P
18	BASHAV SUTRADHAR	P	P	P	P	P	P	P	AB	P	P
19	ROCKI MONDAL	P	P	P	P	P	P	P	P	P	P
20	SOMNATH BHANDARI	P	P	P	P	P	P	P	P	P	P


 Teacher-in-charge
 THLH Mahavidyalaya
 Madian, Mallarpur, Gonpur
 Birbhum, Pin- 731216, W.B.

CAPACITY DEVELOPMENT AND SKILL ENHANCEMENT (2022-2023)

'SCIENTIFIC COMPUTING USING MATLAB'



Attendance of the Candidates -

Sl No	Name	25-01-2022	27-01-2022	28-01-2022	29-01-2022	31-01-2022	02-02-2022	03-02-2022	04-02-2022	05-02-2022	06-02-2022
1	BHASKAR MONDAL	P	P	AB	P	AB	P	P	AB	P	P
2	PRADIP KUMAR DEY	P	P	P	P	P	P	P	P	P	P
3	PRITAM DAS	P	P	P	P	P	P	P	P	P	P
4	PRITAM ROY	P	P	P	P	P	AB	P	P	P	P
5	SANKHADEEP MUKHERJEE	P	P	P	P	P	AB	P	P	P	AB
6	SUBAL PAL	P	P	P	P	P	P	P	P	AB	P
7	SUBHODIP DE	P	AB	AB	P	P	P	P	P	AB	AB
8	SUMAN PAL	P	P	P	P	P	P	P	AB	P	P
9	SUSHOBHAN GHOSH	AB	P	P	AB	P	P	P	AB	P	P
10	SOURIN HALDER	P	P	P	P	P	P	P	P	P	P
11	NILKANTA BAGDI	P	P	P	P	P	P	AB	P	P	P
12	SAIKAT CHOUDHURY	P	P	P	P	P	P	P	P	P	P
13	SUPARNA GHOSH	P	P	P	P	P	P	P	P	P	P
14	DEEPSIKHA DEY	P	P	P	P	P	P	P	AB	AB	P
15	NAJMA KHATUN	P	P	P	P	P	P	P	P	P	P
16	MINTU PRAMANIK	P	AB	P	P	P	P	P	P	P	P
17	UTTIYO CHOUDHURY	P	P	P	P	P	P	P	P	P	AB
18	BASHAV SUTRADHAR	P	P	AB	P	P	P	P	P	P	AB
19	ROCKI MONDAL	P	AB	P	P	P	P	P	P	AB	P
20	SOMNATH BHANDARI	P	P	P	P	P	P	P	AB	P	P

Chandan Mondal

Course Co-ordinator
Add-on/Capacity Development &
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Amit Kumar Chakrabarty
Principal
Dr Amit Kumar Chakrabarty

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Date- 02/03/2022

NOTICE

We are pleased to announce the upcoming **Scientific Computing Using MATLAB Examination** for participants will be held. This examination is a crucial step in assessing your understanding of MATLAB concepts and practical application within Math-Work.

Examination Details:

- **Date:** 12/03/2022
- **Time:** 11:30 am to 03:30 pm
- **Venue:** CLASSROOM

The examination will consist of both theoretical and practical components. You will be required to solve real-world scenarios using MATLAB.

Chandan Mondal

Course Co-ordinator
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Dr Amit Kumar Chakrabarty

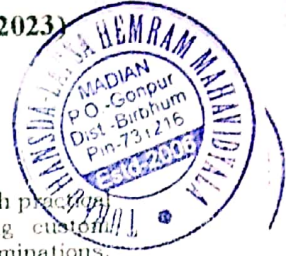
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Dr Amit Kumar Chakrabarty

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Sushmi

Teacher-in-charge
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CAPACITY DEVELOPMENT AND SKILL ENHANCEMENT (2022-2023)
'Scientific Computing Using MATLAB'



Report of the Course :-

The **Scientific Computing Using MATLAB** successfully equipped participants with practical skills in automating tasks, enhancing computing functionality, and creating custom solutions using MATLAB. Participants completed practical assignments and examinations. Certificates were awarded to successful candidates and feedback were collected from participants regarding course content, delivery, and overall experience. Throughout the course, participants actively engaged in hands-on exercises, discussions, and practical assignments. Their enthusiasm and willingness to explore MATLAB concepts contributed to a vibrant learning environment. Students gained practical skills in MATLAB programming. Explored numerical techniques for data handling and solving differential equations. The course is suitable for students interested in research projects involving numerical methods. Access to MATLAB during the course, thanks to support from MathWorks.

Conclusion:

The Scientific Computing Using MATLAB certificate course successfully equipped participants with valuable skills. Participants expressed satisfaction with the practical approach and real-world applications. Regular feedback sessions allowed us to fine-tune the course content. Adjustments were made based on participant preferences and learning pace. Congratulations to all participants who successfully completed the course. Your certificates are a testament to your dedication and newfound skills.

Gurman Mondal
Course Co-ordinator
Add-on/Capacity Development &
Skill Enhancement Activity
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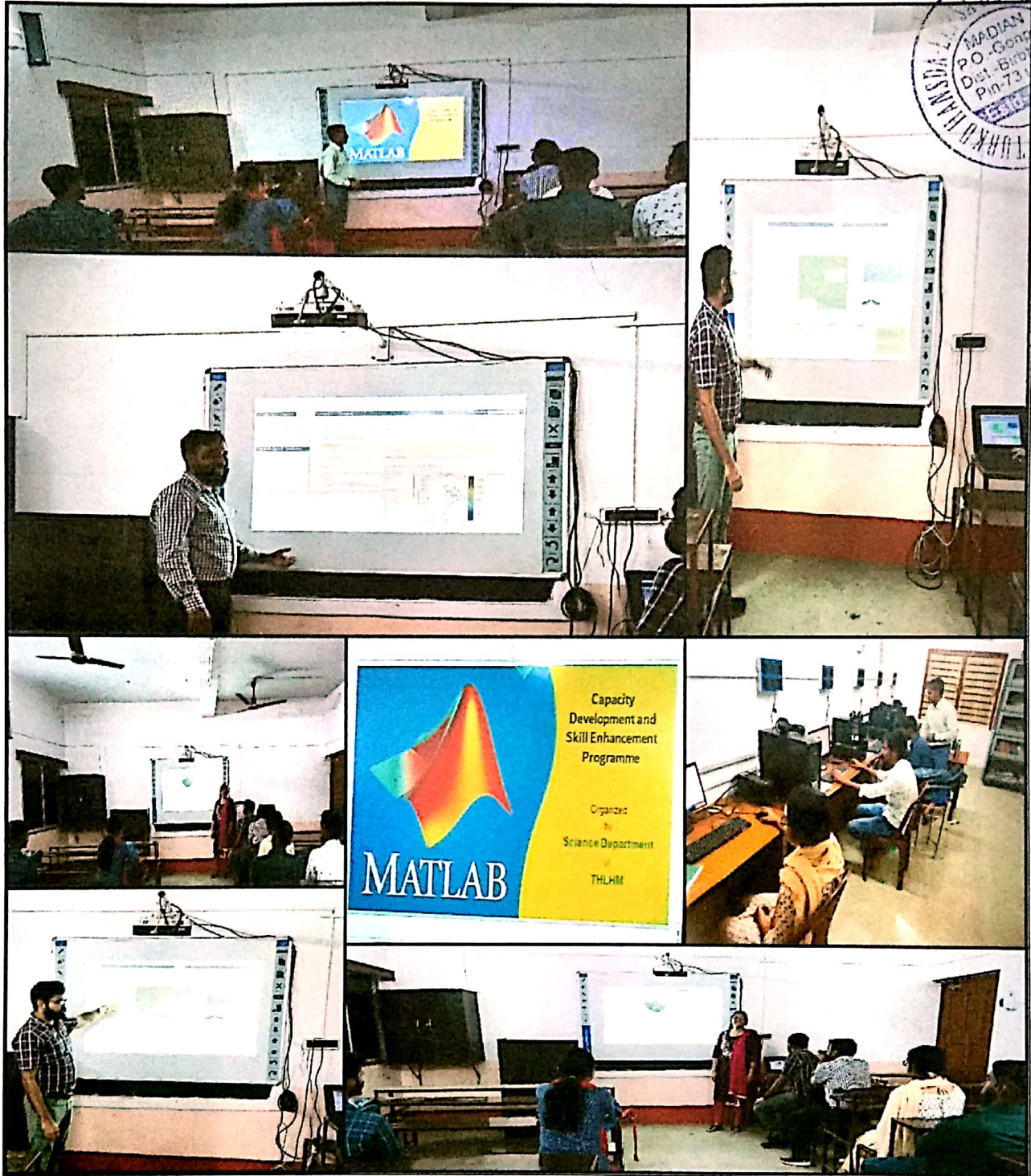
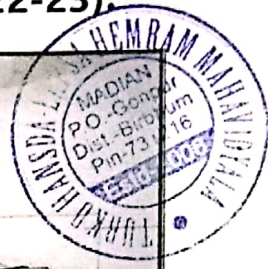


Dr Amit Kumar Chakrabarty
Principal
Dr Amit Kumar Chakrabarty

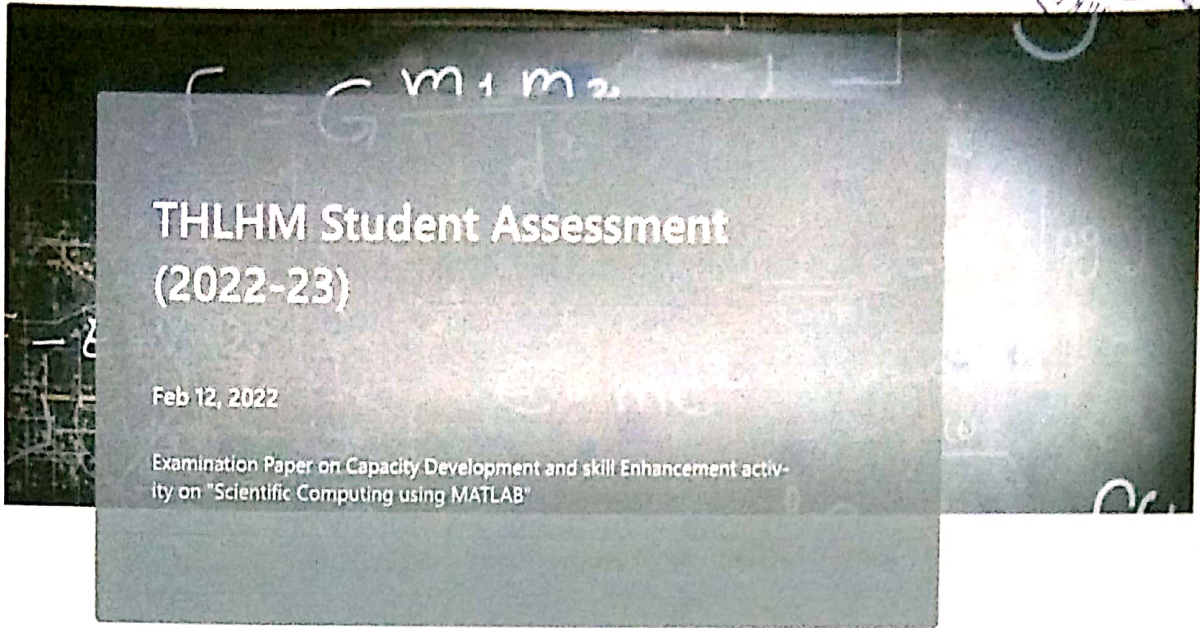
Principal
THLH Mahavidyalaya
Madian, Mallarpur, Gonpur
Birbhum, W.B.

Teacher-in-charge
Teacher-in-charge
THLH Mahavidyalaya
Madian, Mallarpur, Gonpur
Birbhum, Pin- 731216, W.B.

Few Snaps of "Scientific Computing using MATLAB" (2022-23):



Sm
Teacher-in-charge
THLH Mahavidyalaya
Madiam, Mallapur, Gongpur
Birbhum, Pin- 731216, W.B.




Total: 60 Points

* Required

Student information

1. Roll Number *

2. Session *


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Birbhum, Pin- 731216, W.B.



MCQ Questions:

4. What is the purpose of a cell-counting algorithm developed in MATLAB? (2 Points)

- To perform statistical analysis on cell data
- To generate random cell coordinates
- To automate the process of counting cells in biological images
- To create visualizations of cell structures

5. How can you prevent scientific notation on axes labels in MATLAB plots? (2 Points)


- Adjust the font size of the labels
- None of the above
- Set the 'Style' property of the axes to 'manual'
- Use the 'axis equal' command

6. Which MATLAB function assigns labels to connected components in a binary image? (2 Points)

- imwrite
- imread
- bwlabel
- imshow

7. What does a histogram represent in MATLAB? (2 Points)

- The intensity of light in a photograph
- What does a histogram represent in MATLAB?
- The number of data points in a scatter plot
- The color map used for plotting


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8. Which MATLAB toolbox provides functions for point cloud processing? (2 Points)

- Image Processing Toolbox
- Signal Processing Toolbox
- Point Cloud Toolbox
- Statistics and Machine Learning Toolbox

9. Which MATLAB function can be used to compute the mean of a numeric vector? (2 Points)

- sum
- median
- mean
- std

10. What does the 'regionprops' function provide in MATLAB? (2 Points)

- Properties of the entire image
- Properties of the colormap
- Properties of segmented regions in an image
- Properties of the axes

11. How can you display an image in MATLAB without any axes or ticks? (2 Points)

- Use the imshow function with the 'Border' property set to 'tight'
- Set the 'Visible' property of the axes to 'off'
- All of the above
- Use the axis off command

S. M. S.
Teacher-in-charge
THLH Mahavidyalaya
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Birbhum, Pin- 731216, W.B.



12. Which MATLAB function can be used to calculate the standard deviation of a dataset?

(2 Points)


- sum
- std
- mean
- median

13. What is the purpose of using the 'imfill' function in MATLAB? (2 Points)

- To resize an image
- To apply a median filter to an image
- To fill gaps or holes in binary images
- To create a colormap for an image

14. How can you extract the red channel from a color image in MATLAB? (1 Point)

- Using the 'imadjust' function
- Using the 'rgb2gray' function
- Using the 'imread' function
- Using the 'imwrite' function


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Short Answer Type Questions:

15. Describe the purpose of a cell-counting algorithm developed in MATLAB. (3 Points)

16. Explain how it efficiently counts migrated fluorescently-stained cells on membranes from migration assays. (3 Points)


17. Starting from MATLAB R2012b, how can you prevent scientific notation on your axes labels? (2 Points)

18. Provide an example of how to remove exponential notation from tick values and customize the format of tick labels in a way that is respected by zoom and pan (3 Points)

19. Explain how it can handle data or solve differential equations? (3 Points)

20. Given a vector "AA" with random values, how can you count the number of entries meeting a specific condition (e.g., values greater than 0.5)? Provide a concise MATLAB code snippet to achieve this. (3 Points)

21. When dealing with large numbers exceeding 2^{50} , how can you avoid displaying them in scientific notation? Share an example using the "sprintf" function to display a large number in decimal notation. (3 Points)


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22. Create a MATLAB script that generates a plot of a sine wave with a frequency of 2 Hz and a duration of 5 seconds. Customize the axis labels to display time in seconds (not scientific notation) and label the axes appropriately. (5 Points)

23. Explain how MATLAB's built-in functions, such as "bwlabel" or "regionprops", can be used for segmenting objects in an image. (3 Points)

24. Write MATLAB code to compute and visualize the histogram of pixel intensities in a grayscale image. (5 Points)

25. Why is statistical analysis important in scientific counting? (3 Points)

26. Describe how MATLAB can perform statistical tests (e.g., t-tests, ANOVA) on experimental data. (3 Points)

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Subhi
Teacher-in-charge
THL Mahavidyalay
Madian, Mallarpur, Gonpur
Birbhum, Pin- 731216, W.B.



"Scientific Computing using MATLAB" Feedback Form:

Thank you for participating in our Scientific Computing using MATLAB course. We value your feedback and would appreciate if you could take a few minutes to share your thoughts with us.

* Required

Student Details:

1. Full name



2. Registration No.

3. Gender

Male

Female

Prefer not to say

4. Session

5. Email:

Smhri
Teacher-in-charge
THLH Mahavidyalaya
Madian, Mallarpur, Gonpur
Bhubaneswar, Pin- 751216, W.B.

Feedback



6. Please Rate the following aspects of the course: *

	Excellent	Good	Average	Fair	Poor
Course Content	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Instructor's Knowledge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Instructor's Teaching Ability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Course Materials and Resources	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hands-on Experience and Exercises	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

7. Overall Experience *



8. How likely are you to recommend us to a friend or colleague? *

0	1	2	3	4	5	6	7	8	9	10
Not at all likely					Extremely likely					

9. What improvements would you suggest for the course?

This content is neither created nor endorsed by Microsoft. The data you submit will be sent to the form owner.



Sonam
Teacher-in-charge
THLH Mahavidyalaya
Madián, Mallarpur, Gonpur
Birbhum, Pin- 731216, W.B.



"Scientific Computing using MATLAB" Feedback Form:

20 Responses

00:58 Average time to complete

Active Status

1. Full name

20
Responses

Latest Responses

"Sushobhan Ghosh"

"Suman Pal"

"Subhodip De"

2. Registration No.

20
Responses

Latest Responses

"202001034221"

"202001034220"

"202001034219"

3. Gender

<input checked="" type="radio"/> Male	17
<input type="radio"/> Female	3
<input type="radio"/> Prefer not to say	0



4. Session

20
Responses

Latest Responses

"2020-23"

"2020-23"

"2020-23"

5. Email:

20
Responses

Latest Responses

"ghoshsuhobhan03@gmail.com"

"thesumanpal2003@gmail.com"

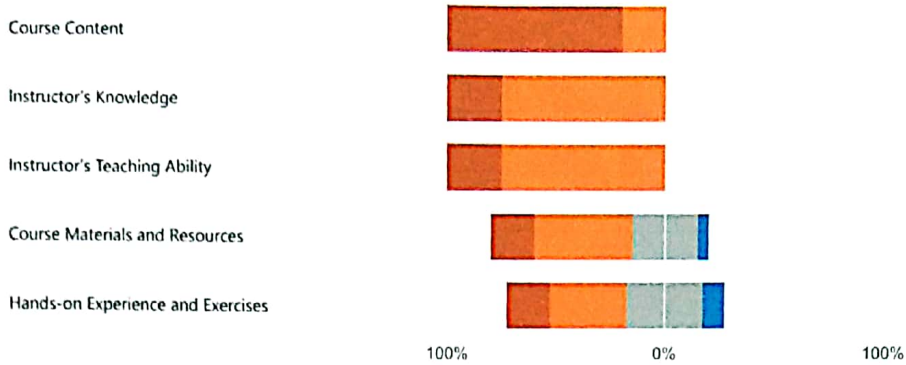
"subhodipde2002@gmail.com"

Teacher-in-charge
THL Mahavidyalay
Madian, Mallarpur, Gonpur
Birbhum Pin- 731216. W.E.



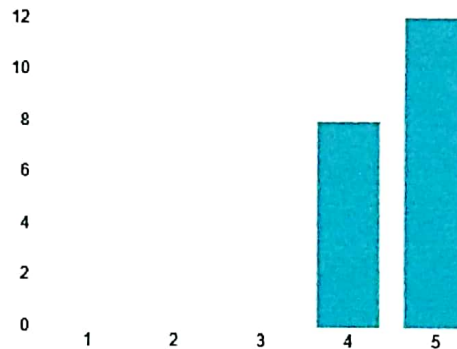
6. Please Rate the following aspects of the course:

■ Excellent ■ Good ■ Average ■ Fair ■ Poor



7. Overall Experience

4.60
Average Rating



8. How likely are you to recommend us to a friend or colleague?

Promoters	12
Passives	8
Detractors	0



9. What improvements would you suggest for the course?

1
Responses

Latest Responses

[Signature]
Teacher-in-charge
THLH Mahavidyalaya
Madián, Mallarpur, Gonpur
Birbhūm, Pin- 731216, W.B.



THLM MAHAVIDYALAY

CERTIFICATE OF COMPLETION

This certifies that

Bhaskar Mondal

has successfully completed the Capacity development and skill
enhancement course of

Scientific Computing using MATLAB

Registration No: 202001034213 of 2020-21 Grade: A Issuing Date: 22.09.2022

conducted by the Departments of Science in collaboration with IQAC at Turku
Hansda Lapsa Hemram Mahavidyalay. Total duration of the course was 40 hours
(2 hours per class). Congratulations to the students on their successful completion
of the course.

Bhaskar Mondal
Course Co-ordinator
Add-on/Capacity Development &
Skill Enhancement Activity
THLM MAHAVIDYALAY
Madian, Mallarpur, Birbhum-731216

Principal
Dr. Amit Kumar Chakrabarty

Amit Kumar Chakrabarty
Principal
THLM Mahavidyalay
Madian, Mallarpur, Birbhum, W.B.



Smiti
Teacher-in-charge
THLM Mahavidyalay
Madian, Mallarpur, Gonpur
Birbhum, Pin- 731216, W.B.



TURKU HANSDA LAPSA HEMRAM MAHAVIDYALAY



CAPACITY DEVELOPMENT AND SKILL ENHANCEMENT COURSE

ON

ICT FOR EFFECTIVE LEARNING

ORGANISED BY THE DEPARTMENT OF PHYSICS

FROM 16/08/2022 TO 30/08/2022

[Signature]
Teacher-in-charge
THLH Mahavidyalaya
Madian, Mallarpur, Gonpur
Birbhum, Pin- 731216, W.B.

TURKU HANSDA LAPSA HEMRAM MAHAVIDYALAYA

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Vill-Madian, Mallarpur

PIN 731216, West Bengal

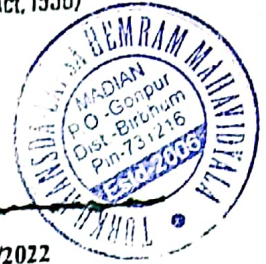
website-www.thlmahavidyalay.ac.in



PO-Ganpur, Birbhum

Phone & Fax 03461-262175

email-tlmprincipal@gmail.com



Date: 16/08/2022 to 30/08/2022

Capacity Development and Skill Enhancement Course on "ICT for Effective Learning"

The following documents are attached in this file-

- 1) Application seeking permission from principal
- 2) Permission from principal
- 3) Program brochure
- 4) Program notice
- 5) Enrolled participant list
- 6) Attendance of participant
- 7) Notice for assessment
- 8) Assessment question
- 9) Result of assessment
- 10) Certificate
- 11) Photos
- 12) Report



Amhin
Teacher-in-charge
THLH Mahavidyalay
Madian, Mallarpur, Gonpur
Birbhum Pin- 731216. W.B.

TURKU HANSDA LAPSA HEMRAM MAHAVIDYALAY



DEPARTMENT OF PHYSICS

Date of Establishment: -2009

Departmental website: -<https://www.physics.thlh.com/>

Departmental mail id: -thlhphysics@gmail.com

Contact info: -Panagarh - Morgram National Hwy , Mallarpur, West Bengal 731216

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Date- 06/08/2022

To
The Principal,
THLH Mahavidyalay
Mallarpur, Birbhum.

Subject - Approval for a Capacity Development and Skill Enhancement Course Proposal on "ICT for Effective Learning"

Respected Sir,

I am writing to seek your approval for a Capacity Development and Skill Enhancement Course titled "ICT for Effective Learning" that we propose to introduce at our college. As we all know, Information and Communication Technology (ICT) plays a pivotal role in today's educational landscape. With the rapid advancement of digital tools and online resources, it is essential for our students to acquire practical skills that enhance their learning experience. This proposed course aims to equip students with the necessary competencies to leverage ICT effectively for academic success. The details of the proposed course are as following.

Course Title: ICT for Effective Learning

Duration: 30 hours (Between 16/08/2022 to 30/08/2022)

Objective: To equip students with the necessary competencies to leverage ICT effectively for academic success.

Target Audience: Undergraduate students from various disciplines.

Course Content: (1) Understanding ICT Fundamentals (2) E-Learning Platforms and Resources (3) Effective Communication Skills (4) Cybersecurity Awareness

Lectures by: (1) Amit Chandra Das (Assistant Professor, Department of Physics) (2) Buddhadeb Ghosh (SACT, Department of Physics) (3) Dr Washim Raja (Assistant Professor, Department of Chemistry) (4) Dr Sewli Chatterjee (Assistant Professor, Department of Mathematics) (5) Chandan Mandal (SACT, Department of Mathematics)

Assessment: Participants will receive a certificate upon successful completion of the course.

We kindly request your approval to initiate this course in the upcoming academic session. We believe it will enrich our students' learning experience and contribute to their holistic development.

Date: 06/08/2022

Place: Mollarpur

Amit Chandra Das

Yours sincerely,
Amit Chandra Das
IT Cell Convenor & Assistant Professor,
Department of Physics
THLH Mahavidyalay
Madian, Mallarpur, Birbhum-731216

Shweta
Teacher-in-charge
THLH Mahavidyalay
Madian, Mallarpur, Gompur,
Birbhum. Pin- 731216, W.B.



TURKU HANSDA LAPSA HEMRAM MAHAVIDYALAYA

(A Govt. Aided General Degree College affiliated to Burdwan University and registered u/s 2(f) & 12(B) of UGC Act, 1956)

Vill-Madian, Mallarpur

PIN 731216, West Bengal

website-www.thlhmahavidyalay.ac.in



PO-Ganpur, Birbhum

Phone & Fax 03461-262175

email-tlmpincipal@gmail.com



Date- 12/08/2022

NOTICE

CAPACITY DEVELOPMENT AND SKILL ENHANCEMENT COURSE (2022-2023)

It is hereby informed that a Capacity Development and Skill Enhancement Course on "ICT for Effective Learning" will be conducted by the IT Cell of our college. Those who are interested are requested to register themselves at Department of Physics. This course will enhance your digital skills and empower you in your academic journey. Here are the details:

Course Title: ICT for Effective Learning

Duration: 30 hours

Schedule: 16/08/2022 to 30/08/2022

Venue: Smart Class Room

Instructor: Amit Chandra Das, Dr Washim Raja, Buddhadeb Ghosh, Dr Sewli Chatterjee, Chandan Mondal

Amit Chandra Das

Course Coordinator

Amit Chandra Das

Assistant Professor, Department of Physics

Head

Department of Physics

THLH Mahavidyalay

Madian, Mallarpur, Ganpur, Birbhum-731216

Dr Amit Kumar Chakrabarty

Principal

Dr Amit Kumar Chakrabarty

Principal

THLH Mahavidyalay

Madian, Mallarpur, Ganpur

Birbhum, WB



Teacher-in-charge

Teacher-in-charge
THLH Mahavidyalay
Madian, Mallarpur, Ganpur
Birbhum, Pin- 731216, W.B.

TURKU HANSDA LAPSA HEMRAM MAHAVIDYALAYA

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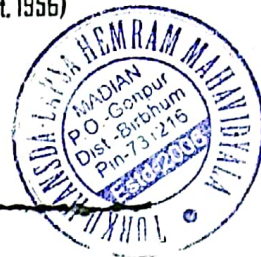
website-www.thlhmahavidyalay.ac.in



PO-Ganpur, Birbhum

Phone & Fax 03461-262175

email-tlmpincipal@gmail.com



Course Details

- Course Title: ICT for Effective Learning
 - Duration: 30 hours
 - Schedule: 16/08/2022 to 30/08/2022
- Objectives:
1. **Understanding ICT Fundamentals:**
 - Explore the basics of ICT, including hardware, software, and networks.
 - Learn about digital literacy and responsible online behavior.
 2. **E-Learning Platforms and Resources:**
 - Discover various e-learning platforms, digital libraries, and repositories.
 - Master the art of efficient online research and information retrieval.
 3. **Effective Communication Skills:**
 - Enhance your virtual communication skills.
 - Learn to collaborate seamlessly with peers and instructors using digital tools.
 4. **Cybersecurity Awareness:**
 - Understand the importance of cybersecurity.
 - Stay informed about online threats and best practices for safe browsing.
- Course outcome:
1. **Enhanced Knowledge and Skills:**
 - Students gain specialized knowledge and skills related to information and communication technology (ICT).
 - They learn how to effectively use online tools for various educational activities.
 - Participants optimize retrieval processes using tools like Socrative and Quizlet.
 - They become proficient in conducting assessments for learning using platforms like Kahoot and ePortfolios.
 - Students receive training on providing effective feedback to their peers using tools like Edpuzzle.
 2. **Improved Employability:**
 - With additional ICT skills, students become more employable.
 - These skills can qualify them for jobs with better pay and greater opportunities.
 3. **Support for Collaboration and Dialogue:**
 - Participants learn to foster collaboration and dialogue among students using community tools such as Padlet and Trello.
- Benefits for Students:
1. **Academic Productivity:** Boost your productivity by effectively using digital tools for research, note-taking, and project management.
 2. **Research Excellence:** Learn how to navigate online databases, access scholarly articles, and cite sources correctly.



Smiti
Teacher-in-charge
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Birbhum. Pin- 731216. W.B.

TURKU HANSDA LAPSA HEMRAM MAHAVIDYALAYA

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email-tlmpincipal@gmail.com



Date: 10/08/2022

Meeting Resolution to Conduct a Capacity Development and Skill Enhancement Course on "ICT for Effective Learning"

It is resolved by the Principal of THLH Mahavidyalay, on 10.08.2022, that a Capacity Development and Skill Enhancement Course on "ICT for Effective Learning" will be conducted to equip students with the necessary competencies to leverage ICT effectively for academic success within 16/08/2022 to 30/08/2022.

1. The course shall cover the following topics:
 - o Understanding ICT Fundamentals
 - o E-Learning Platforms and Resources
 - o Effective Communication Skills
 - o Cybersecurity Awareness
2. The course shall be open to all the students of THLH Mahavidyalay.
3. The course shall be conducted within the duration of 30 hours.
4. The institution shall allocate the necessary resources, including:
 - o Physics and computer laboratory with the required software
 - o Qualified instructors
 - o Learning materials and access to online resources
5. A nominal fee may be charged to cover the costs of materials and certification.
6. Upon successful completion, participants shall receive a certificate of completion.
7. The effectiveness of the course shall be evaluated through participant feedback and performance assessments, and improvements shall be made accordingly for future iterations.

This resolution is hereby adopted by Dr. Amit Kumar Chakrabarty, PRINCIPAL OF THLHM and shall be effective immediately upon its passage.

Principal
Dr Amit Kumar Chakrabarty



Principal
THLH Mahavidyalay
Madian, Mallarpur, Gonpur
Birbhum, W.B

Teacher-in-charge
THLH Mahavidyalay
Madian, Mallarpur, Gonpur
Birbhum, Pin- 731216, W.B.

3. **Communication Proficiency:** Develop strong communication skills for virtual discussions, group projects, and online presentations.
4. **Digital Literacy:** Become a confident user of technology, from creating multimedia presentations to participating in webinars.



- **Course Syllabus:**

1. Introduction to ICT
2. E-learning platforms and digital libraries
3. Online research techniques
4. Virtual collaboration tools
5. Cybersecurity essentials

- **Justification:**

In today's world, digital literacy is essential. An ICT course equips students with skills needed for the workplace and daily life. This ICT course not only benefits teachers and students but also contributes to educational transformation and prepares learners for a technology-driven future.

- **Course Teachers:**

- (i) Amit Das, Assistant Professor, Department of Physics, THLH Mahavidyalay.
- (ii) Buddhadeb Ghosh, SACT, Department of Physics, THLH Mahavidyalay.
- (iii) Dr Sewli Chatterjee, Assistant Professor, THLH Mahavidyalay.
- (iv) Chandan Mondal SACT, Department of Mathematics, THLH Mahavidyalay.
- (v) Dr Wasim Raja, Assistant Professor, Department of Chemistry, THLH Mahavidyalay



Sewli
Teacher-in-charge
THLH Mahavidyalay
Madian, Mallapur, Gonpur
Birbhum, Pin- 731216, W.B.

TURKU HANSDA LAPSA HEMRAM MAHAVIDYALAY



DEPARTMENT OF PHYSICS

Date of Establishment: -2009

Departmental website: -<https://www.physics.thlh.com/>

Departmental mail id: -thlhphysics@gmail.com

Contact info: -Panagarh - Morgram National Hwy., Mallarpur, West Bengal 731216

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Date:13/11/2019

Capacity Development and Skill Enhancement Course titled "ICT for Effective Learning"

❖ List of Enrolled Students:

Serial No.	Name	Phone	email	Registration No.	Stream
1	Najma Khatun	9382930158	najukhatun2004@gmail.com	202101043305	MTMH
2	Deepsikha Dey	7407841778	deepsikha2092003@gmail.com	202101043308	MTMH
3	Bashav Sutradhar	9531516215	bashavsutradhar4@gmail.com	202201037471	MTMH
4	Rocki Mondal	7029744171	rockimondal4@gmail.com	202201037469	MTMH
5	Bappa Choudhury	7679022328	bappabts@gmail.com	202201037472	BSP

Teacher-in-charge
THLH Mahavidyalay
Madian, Mallarpur, Gonpur
Birbhum, Pin- 731216, W.B.



TURKU HANSA LAKSA HEMRAM MAHAVIDYALAY



DEPARTMENT OF PHYSICS

Date of Establishment: 2009

Departmental website: - <https://www.physics.thlh.com/>

Departmental mail id: - thlhphysics@gmail.com

Contact info: - Panagarh - Morgram National Hwy., Mallarpur, West Bengal 731216

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Date: 30/08/2022

Capacity Development and Skill Enhancement Course titled "ICT for Effective Learning"

❖ Attendance of the Candidates:

Serial No.	Name	16 th Nov	17 th Aug	18 th Aug	20 th Nov	23 rd Aug	24 th Aug	25 th Aug	26 th Aug	27 th Aug	30 th Aug
6	Najma Khatun	P	P	P	P	P	P	P	P	P	P
7	Deepsikha Dey	P	P	P	P	P	P	P	P	P	P
8	Bashav Sutradhar	P	P	P	P	P	P	P	P	P	P
9	Rocki Mondal	P	P	P	P	P	P	P	P	P	P
10	Bappa Choudhury	P	P	P	P	P	P	P	P	P	P

Teacher-in-charge
THLH Mahavidyalay
Madian, Mallarpur, Gonpur
Birbhum, Pin- 731216, W.B



TURKU HANSDA LAPSA HEMRAM MAHAVIDYALAY



DEPARTMENT OF PHYSICS

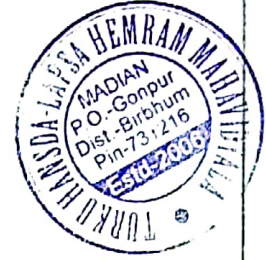
Date of Establishment: -2009

Departmental website: -<https://www.physics.thlh.com/>

Departmental mail id: -thlhphysics@gmail.com

Contact info: -Panagarh - Morgram National Hwy., Mallarpur, West Bengal 731216

(A Govt. Aided General Degree College affiliated to Burdwan University and Accredited by NAAC with B Grade in 2016)



Date:30/08/2022

Capacity Development and Skill Enhancement Course titled "ICT for Effective Learning"

❖ Attendance of the Candidates:

Serial No.	Name	16 th Nov	17 th Aug	18 th Aug	20 th Nov	23 rd Aug	24 th Aug	25 th Aug	26 th Aug	27 rd Aug	30 th Aug
6	Najma Khatun	P	P	P	P	P	P	P	P	P	P
7	Deepsikha Dey	P	P	P	P	P	P	P	P	P	P
8	Bashav Sutradhar	P	P	P	P	P	P	P	P	P	P
9	Rocki Mondal	P	P	P	P	P	P	P	P	P	P
10	Bappa Choudhury	P	P	P	P	P	P	P	P	P	P

Teacher-in-charge
THLH Mahavidyalay
Madian, Mallarpur, Gonpur
Birbhum, Pin- 731216, W.B



TURKU HANSDA LAPSA HEMRAM MAHAVIDYALAY



DEPARTMENT OF PHYSICS

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Contact info: -Panagarh - Morgam National Hwy., Mallarpur, West Bengal 731216

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Date- 28/08/2022

NOTICE

CAPACITY DEVELOPMENT AND SKILL ENHANCEMENT COURSE (2022-2023)

It is hereby informed that the assessment of the Capacity Development and Skill Enhancement Course on ICT for Effective Learning for participants will be held on 30/08/2022. This examination is mandatory.

Examination Details:

- Date: 30/08/2022
- Time: 3:00 pm to 03:30 pm
- Venue: CLASSROOM

Amit Chandra Das

Course Coordinator
Amit Chandra Das
IT Cell Convenor & Assistant Professor,
Department of Physics

Head
Department of Physics
THLH Mahavidyalaya
Madian, Mallarpur, Gonpur, Birbhum-731216

Dr. Amit Kumar Chakrabarty

Principal
Dr Amit Kumar Chakrabarty

Principal
THLH Mahavidyalaya
Madian, Mallarpur, Gonpur
Birbhum, W.B



Teacher-in-charge

Teacher-in-charge
THLH Mahavidyalaya
Madian, Mallarpur, Gonpur
Birbhum, Pin- 731216, W.B.

TURKU HANSDA LAPSA HEMRAM MAHAVIDYALAY



DEPARTMENT OF PHYSICS

Date of Establishment: - 2009

Departmental website: - <https://www.physics.thlm.com/>

Departmental mail id: - thlmphysics@gmail.com

Contact info: - Panagarh - Morgram National Hwy., Mallarpur, West Bengal 731216

(A Govt. Aided General Degree College affiliated to Bardwan University and Accredited by NAAC with B Grade In 2016)



Date: 30/08/2022

Capacity Development and Skill Enhancement Course titled "ICT for Effective Learning"

Name:

Roll:

❖ Answer all the questions. Each question carries two marks.

- Question:** What are Collaboration tools?
 - A) Collaboration tools are a process that two or more students communicate to work and learn together.
 - B) Collaboration tools are devices that enable communication between students and instructors only.
 - C) Collaboration tools are devices that enable communication.
 - D) Collaboration tools are devices that enable communication by two or more students to make communication work and learn together.
 - **Answer:** D) Collaboration tools are devices that enable communication by two or more students to make communication work and learn together.
- Question:** Web whiteboarding allows a user to do the following, except:
 - A) Enable both teachers and students to work in real-time.
 - B) Emulate writing or drawing on a blackboard.
 - C) Add audio.
 - D) Contents can be saved for future presentations.
 - **Answer:** C) Add audio.
- Question:** What is the definition of learning?
 - A) A procedure during which a person learns to associate a reflex response with a new stimulus.
 - B) A relatively permanent change in behavior due to experience.
 - C) A conditioned response dies out.
 - D) The conditioned response is only produced when a specific stimulus is presented.
 - **Answer:** B) A relatively permanent change in behavior due to experience.
- Question:** Which of the following was established as a comprehensive tool for school evaluation leading to school improvement by the National Institute of Educational Planning and Administration (NIEPA)?
 - A) SWAYAM
 - B) Shaala Siddhi
 - C) IGNOU
 - D) More than one of the above
 - **Answer:** B) Shaala Siddhi.



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5. Question: According to the IT Act, 2000, what is the penalty for breach of confidentiality and privacy?
- A) Imprisonment for two years or a fine extending to one lakh rupees, or both
 - B) Imprisonment for one year or a fine extending to two lakh rupees, or both
 - C) Imprisonment for two years or a fine extending to two lakh rupees, or both
 - D) Imprisonment for one year or a fine extending to four lakh rupees, or both
 - Answer: A) Imprisonment for two years or a fine extending to one lakh rupees, or both.
6. Question: What is the primary goal of the National Council for Teacher Education (NCTE)?
- A) Facilitating the planned and coordinated development of the nation's teacher education system
 - B) Regulating and maintaining norms and standards for higher education
 - C) Promoting research in educational technology
 - D) Ensuring quality in school infrastructure
 - Answer: A) Facilitating the planned and coordinated development of the nation's teacher education system
7. Question: What does the term "ICT" stand for?
- A) Information and Computer Technology
 - B) Internet and Communication Technology
 - C) Integrated Curriculum Technology
 - D) Information and Communication Technology
 - Answer: D) Information and Communication Technology.
8. Question: Which program aims to achieve the three guiding principles of education policy: access, equity, and quality?
- A) SWAYAM
 - B) Shaala Siddhi
 - C) IGNOU
 - D) NCTE
 - Answer: A) SWAYAM.
9. Question: What is the purpose of webinars in education?
- A) To provide live entertainment to students
 - B) To facilitate synchronous online learning and interaction
 - C) To replace traditional textbooks
 - D) To promote physical fitness
 - Answer: B) To facilitate synchronous online learning and interaction.
10. Question: What is the role of Learning Management Systems (LMS) in education?
- A) To manage school infrastructure
 - B) To track student attendance
 - C) To facilitate online course delivery, assessment, and collaboration
 - D) To organize extracurricular activities
 - Answer: C) To facilitate online course delivery, assessment, and collaboration.



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❖ Course Evaluation Sheet:

Examination Date - 30/08/2022

Total Marks - 20

Serial No.	Name	Marks	Grade
1	Najma Khatun	18	Ex
2	Deepsikha Dey	16	A
3	Bashav Sutradhar	18	Ex
4	Rocki Mondal	16	A
5	Bappa Choudhury	14	B



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PO-Ganpur, Birbhum

PIN 731216, West Bengal

Phone & Fax 03461-262175

website-www.thlhmahavidyalay.ac.in

email-thlhprincipal@gmail.com

❖ Course Certificate:

CERTIFICATE

of completion

This certifies that

Najma Khatun

Registration no.....202101043305.....

Has successfully completed the Capacity Development and Skill Enhancement Course on ICT for Effective Learning conducted by the IT Cell in collaboration with IQAC at Turku Hansda Lapsa Hemram Mahavidyalay. Total duration of the course was 30 hours (16th to 30th August 2022).
Congratulations to the students on their successful completion of the course.

Amit Chandra Das

COURSE CO-ORDINATOR

Head of Physics

M.



Dramit Kumar Chakrabarty

PRINCIPAL
DRAMIT KUMAR CHAKRABARTY

Principal
THLH Mahavidyalay
Madian, Mallarpur, Ganpur
Birbhum, WB



Smiti

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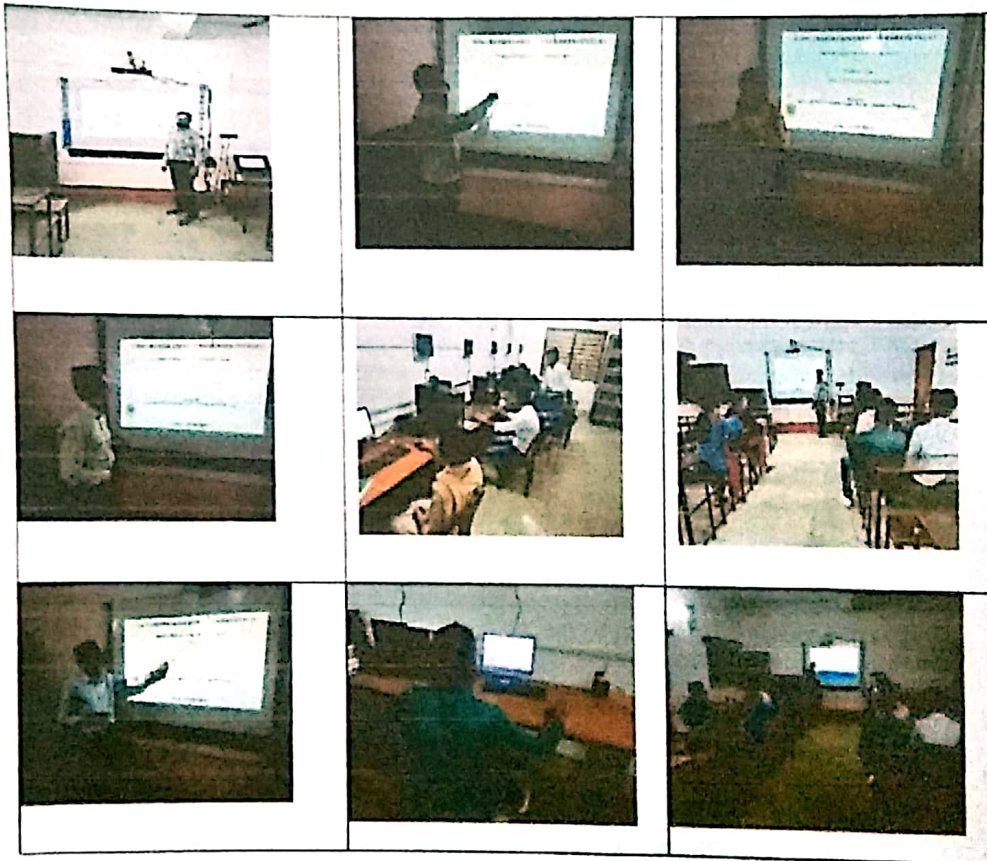
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Date:30/08/2022

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❖ Photo Gallery:



Smiti
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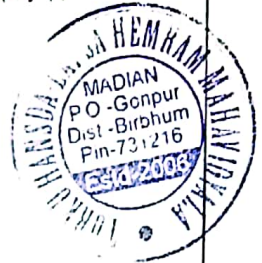
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Date:30/08/2022

Capacity Development and Skill Enhancement Course titled "ICT for Effective Learning"

❖ Report:

The Physics Department organized an Add-on/Certificate Course on "Physics in Everyday Life" specifically tailored for undergraduate students. The course aimed to provide foundational knowledge of physics principles relevant to daily experiences. Topics covered included mechanics, thermodynamics, waves, optics, and magnetism. Students gained practical insights into real-world applications. The course enhanced problem-solving skills and fostered interdisciplinary learning. Overall, it empowered students with a deeper understanding of the natural world. The brief of the course is given below.

- Course Title: ICT for Effective Learning
- Duration: 30 hours
- Schedule: 16/08/2022 to 30/08/2022
- Course Instructor: Amit Das, Assistant Professor, Department of Physics, THLH Mahavidyalay; Buddhadeb Ghosh, SACT, Department of Physics, THLH Mahavidyalay; Dr Sewli Chatterjee, Assistant Professor, THLH Mahavidyalay; Chandan Mondal SACT, Department of Mathematics, THLH Mahavidyalay; Dr Wasim Raja, Assistant Professor, Department of Chemistry, THLH Mahavidyalay
- Number of Enrolled Participant: 5

❖ Conclusion:

The course empowers students to leverage ICT tools for effective learning, preparing them for academic success and future careers.



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