



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.mugberiangadharmahavidyalaya.ac.in

Report

on

Short Term Course on

“RESEARCH METHODOLOGY”

Course Period: 09th December, 2021– 20th December, 2021



Organized
by

Department of Mathematics (UG & PG)

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 30.11.2021

Members present:

1. Dr. Kalipada Maity, 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. Santu Hati, Contractual Teacher, Dept. of Mathematics.
8. Mr. Goutam Kumar Mandal, Contractual Teacher, Dept. of Mathematics.
9. Mr. Subham Maity, 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. Kalipada Maity, HOD of Dept. of Mathematics** chaired the meeting.

Decision taken in the meeting is:

- (1) It is decided that **Dr. Kalipada Maity** will be coordinator of this course.
- (2) The course period will be scheduled from **09th December, 2021– 20th December, 2021.**

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 PG students. 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.



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Date 30.11.2021

Notice

This is to hereby notify all the students that the Dept. of Mathematics, Mugberia Gangadhar Mahavidyalaya is going to run a Short Term Course on “RESEARCH METHODOLOGY” from 09th December 2021 to 20th December 2021 through offline/online mode. The course will be delivered by lecture, Computer Lab practices, Assignment Solve, interaction and doubt clearance along with examination on topic related to Research Methodology. The course will be conduct for PG Students. Course access fee for the student is decided as Rs. 200/-. All the students of the college are requested to be present in this course.


Dr. Swapan Kumar Misra

Principal

Mugberia Gangadhar Mahavidyalaya

Principal
Mugberia Gangadhar Mahavidyalaya



Short Term Course on “RESEARCH METHODOLOGY”

09th December, 2021– 20th December, 2021

Organised by

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

Mugberia Gangadhar Mahavidyalaya

Course Coordinators:

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

Faculty Team:

- 1) Dr. Swapan Kumar Misra, Chair Person & Principal, Mugberia Gangadhar Mahavidyalaya
- 2) Dr. Kalipada Maity, Associate Professor, Head, Department of Mathematics (UG & PG), Mugberia Gangadhar Mahavidyalaya
- 3) Dr. Manoranjan De, Assistant Professor, Department of Mathematics (UG & PG) Mugberia Gangadhar Mahavidyalaya
- 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. SantuHati, Contractual Teacher, Dept. of Mathematics.
- 9) Mr. Goutam Kumar Mandal, Contractual Teacher, Dept. of Mathematics.
- 10) Mr. SubhamMaity, Contractual Teacher, Dept. of Mathematics.

Course Duration: 30 hrs

Delivery Mode: Offline

OBJECTIVES:

The overall **aim** of the course would be to gain the research skills of young, aspiring students to undertake high quality research and publications. The **specific objectives** of the course are-

❖ To enable the participants, to define their research problems, develop an approach to research problems and select suitable research design.

❖ To impart capabilities for formulation and testing of hypothesis based on the nature of research.

COURSE LEARNING OUTCOME

Knowledge: The course aims to give students a broad understanding of research methodology, including theory of science and qualitative and quantitative methods.

Research Skills: The course aims to give students skills for critical reading and writing of research literature, book written and for developing a research proposal for a master's thesis project.

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

Syllabus of "Research Methodology"

UNIT I – RESEARCH FORMULATION AND DESIGN

Motivation and objectives – Research methods vs. Methodology. Types of research – Descriptive vs. Analytical, applied vs. Fundamental, Quantitative vs. Qualitative, Conceptual vs. Empirical, concept of applied and basic research process, criteria of good research. Defining and formulating the research problem, selecting the problem, necessity of defining the problem, importance of literature review in defining a problem, literature review-primary and secondary sources, reviews, monograph, patents, research databases, web as a source, searching the web, critical literature review, identifying gap areas from literature and research database, development of working hypothesis.

UNIT II – DATA COLLECTION AND ANALYSIS

Accepts of method validation, observation and collection of data, methods of data collection, sampling methods, data processing and analysis strategies and tools, data analysis with statically package (Sigma STAT, SPSS for student t-test, ANOVA, etc.), hypothesis testing

UNIT III – RESEARCH ETHICS, IPR AND SCHOLARLY PUBLISHING

Ethics-ethical issues, ethical committees (human & animal); IPR- intellectual property rights and patent law, commercialization, copy right, royalty, trade related aspects of intellectual property rights (TRIPS); scholarly publishing- IMRAD concept and design of research paper, citation and acknowledgement, plagiarism, reproducibility and accountability.

UNITIV–INTERPRETATIONANDREPORTWRITING

Meaning of Interpretation, Technique of Interpretation, Precaution in Interpretation, Significance of Report Writing, Different Steps in Writing Report, Layout of the Research Report, Types of Reports, Oral Presentation, Mechanics of Writing a Research Report, Precautions for Writing Research Reports, Conclusions.

UNITV-USEOFTOOLS/TECHNIQUESFORRESEARCH:

Use of tools / techniques for Research: methods to search required information effectively, Reference Management Software like Zotero/Mendeley, Software for paper formatting like LaTeX/MS Office, Software for detection of Plagiarism.

REFERENCES

1. Garg, B.L., Karadia, R., Agarwal, F. and Agarwal, U.K., 2002. An introduction to Research Methodology, RBSA Publishers.
2. Kothari, C.R., 1990. Research Methodology: Methods and Techniques. New Age International. 418p.
3. Sinha, S.C. and Dhiman, A.K., 2002. Research Methodology, Ess Ess Publications. 2 volumes.
4. Trochim, W.M.K., 2005. Research Methods: the concise knowledge base, Atomic Dog Publishing. 270p.
5. Wadehra, B.L. 2000. Law relating to patents, trade-marks, copyright designs and geographical indications. Universal Law Publishing.
6. Leedy, P.D. and Ormrod, J.E., 2004. Practical Research: Planning and Design, Prentice Hall.
7. Satarkar, S.V., 2000. Intellectual property rights and Copyright. Ess Ess Publications.

Short Term Course on

“RESEARCH METHODOLOGY”

09th December, 2021– 20th December, 2021

Organised by

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

Mugberia Gangadhar Mahavidyalaya

Date of Inauguration: 09th December, 2021

Eligibility: PG Students of Mathematics only

Duration: 30 Hours

Registration Fee: Rs. 200/-

Dr. Swapan Kumar Misra, Principal, Mugberia Gangadhar Mahavidyalaya

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

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

Email : kmaity78@gmail.com

Phone No : 9434611354

Short Term Course on “RESEARCH METHODOLOGY”

Organised by

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

Mugberia Gangadhar Mahavidyalaya

List of register Students

Sl. No.	Student Name	PG(SEM)	Amount Paid
1	Amiya Mandal	SEM-I	Rs. 200.00
2	Biren Pahari	SEM-I	Rs. 200.00
3	Biswajit Mandal	SEM-I	Rs. 200.00
4	Buddhadev Jana	SEM-I	Rs. 200.00
5	Debabrata Patra	SEM-I	Rs. 200.00
6	Debayyoti Maity	SEM-I	Rs. 200.00
7	Ditangshu Barman	SEM-I	Rs. 200.00
8	Goutam Jana	SEM-I	Rs. 200.00
9	Krishendu Pradhan	SEM-I	Rs. 200.00
10	Moumita Sardar	SEM-I	Rs. 200.00
11	Poushali Tripathy	SEM-I	Rs. 200.00
12	Pradyot Dalapati	SEM-I	Rs. 200.00
13	Priti Das Adhikari	SEM-I	Rs. 200.00
14	Puspendu Sau	SEM-I	Rs. 200.00
15	Raja Kumar Shee	SEM-I	Rs. 200.00
16	Saikat Jana	SEM-I	Rs. 200.00
17	Sachayan Laha	SEM-I	Rs. 200.00
18	Shrabani Jana	SEM-I	Rs. 200.00
19	Shyamal Bera	SEM-I	Rs. 200.00
20	Snehasish Bhowmik	SEM-I	Rs. 200.00
21	Snigdha Mandal	SEM-I	Rs. 200.00
22	Shreya Jana	SEM-I	Rs. 200.00
23	Subhadip Mandal	SEM-I	Rs. 200.00
24	Subhamay Das	SEM-I	Rs. 200.00
25	Subinoy Patra	SEM-I	Rs. 200.00

26	Suchismita Pradhan	SEM-I	Rs. 200.00
27	Sudeshna Maity	SEM-I	Rs. 200.00
28	Susmita Sahoo	SEM-I	Rs. 200.00
29	Tapasi Karan	SEM-I	Rs. 200.00
30	Sahib Bera	SEM-I	Rs. 200.00
31	Soumya Kanti Mandal	SEM-I	Rs. 200.00
32	Sayan Das	SEM-I	Rs. 200.00
33	Sumana Maity	SEM-I	Rs. 200.00
34	Bidisha Sasmal	SEM-I	Rs. 200.00

Department of Mathematics, MGM

Short Term Course on "RESEARCH METHODOLOGY"

Organised by

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

Mugberia Gangadhar Mahavidyalaya

Student Class Attendance Record

Short term Course on
Research Methodology

09/11/2021 to 20/12/2021

NAME OF PUPILS

REGISTER OF ATTEND-
FOR THE MONTH
ATTEND -

Serial No.	Roll No.	Sl. No. & dt. of Adm. in the Adm. Reg.	ATTEND -																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1.	Amiya Maudal		X	X	X	X	X	X	X	X	X									
2.	Birsen Pahari		X	X	X	X	X	X	X	X	X									
3.	Biswajit Maudal		X	X	X	X	X	X	X	X	X									
4.	Buddhadev Jana		X	X	X	X	X	X	X	X	X									
5.	Debabrata Patra		X	X	X	X	X	X	X	X	X									
6.	Debjyoti Maity		X	X	X	X	X	X	X	X	X									
7.	Xitangshu Barman		X	X	X	X	X	X	X	X	X									
8.	Goutam Jana		X	X	X	X	X	X	X	X	X									
9.	Krishnendu Pradhan		X	X	X	X	X	X	X	X	X									
10.	Moumita Sardar		X	X	X	X	X	X	X	X	X									
11.	Poushali Tripathy		X	X	X	X	X	X	X	X	X									
12.	Pradyot Dalapati		X	X	X	X	X	X	X	X	X									
13.	Priiti Das Adhikari		X	X	X	X	X	X	X	X	X									
14.	Puspendu Saha		X	X	X	X	X	X	X	X	X									
15.	Raja Kumar Shee		X	X	X	X	X	X	X	X	X									
16.	Sankat Jana		X	X	X	X	X	X	X	X	X									
17.	Sanchayan Laha		X	X	X	X	X	X	X	X	X									
18.	Shrabani Jana		X	X	X	X	X	X	X	X	X									
19.	Shyamal Bera		X	X	X	X	X	X	X	X	X									
20.	Snehasis Bhosmik		X	X	X	X	X	X	X	X	X									
21.	Snigdha Maudal		X	X	X	X	X	X	X	X	X									
22.	Shreya Jana		X	X	X	X	X	X	X	X	X									
23.	Subhadip Maudal		X	X	X	X	X	X	X	X	X									
24.	Subhamay Das		X	X	X	X	X	X	X	X	X									
25.	Subinay Patra		X	X	X	X	X	X	X	X	X									
26.	Suchismita Pradhan		X	X	X	X	X	X	X	X	X									
27.	Sudeshna Maity		X	X	X	X	X	X	X	X	X									
28.	Susmita Sahoo		X	X	X	X	X	X	X	X	X									
29.	Tapasi Kacan		X	X	X	X	X	X	X	X	X									
30.	Sahib Bera		X	X	X	X	X	X	X	X	X									
31.	Sourmya Kanti Maudal		X	X	X	X	X	X	X	X	X									
32.	Sayun Das		X	X	X	X	X	X	X	X	X									
33.	Sumana Maity		X	X	X	X	X	X	X	X	X									
34.	Bidisha Sasmal		X	X	X	X	X	X	X	X	X									

Principal
Mugberia Gangadhar Mahavidyalaya

Principal
Mugberia Gangadhar Mahavidyalaya

No. Present daily ---
No. Absent daily ---

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Mugberia Gangadhar Mahavidyalaya

The list of Distributed Certificates on MATLAB

Short Term Course
on
RESEARCH METHODOLOGY
from 09.12.2021 to 20.12.2021

Organized by

The Department of Mathematics,
MUGBERIA GANGADHAR MAHAVIDYALAYA
Bhupatinagar:: Purba Medinipur :: West Bengal ::721425

Certificate

This is to certify that Shri/Smt/Ms*Shreya Jana*.....has successfully participated and completed 30 hours for the Short Term Course on Research Methodology by the Department of Mathematics, Mugberia Gangadhar Mahavidyalaya on and from 09.12.2021 to 20.12.2021.

Date: 20th December 2021

Dr. Kalipada Maity
Dr. Kalipada Maity
Course Coordinator
Mugberia Gangadhar Mahavidyalaya

Dr. Swapan Kumar Misra
Dr. Swapan Kumar Misra
Principal
Mugberia Gangadhar Mahavidyalaya



Short Term Course
on
RESEARCH METHODOLOGY
from 09.12.2021 to 20.12.2021

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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*Saikat Jana*.....has successfully participated and completed 30 hours for the Short Term Course on Research Methodology by the Department of Mathematics, Mugberia Gangadhar Mahavidyalaya on and from 09.12.2021 to 20.12.2021.

Date: 20th December 2021

Kalipada Maity
Dr. Kalipada Maity
Course Coordinator
Mugberia Gangadhar Mahavidyalaya

Swapan Kumar Misra
Dr. Swapan Kumar Misra
Principal
Mugberia Gangadhar Mahavidyalaya

Department



Short Term Course
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RESEARCH METHODOLOGY
from 09.12.2021 to 20.12.2021

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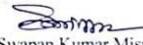
The Department of Mathematics,
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Certificate

This is to certify that Shri/Smt/Ms Sachayan Laha.....has successfully participated and completed 30 hours for the Short Term Course on Research Methodology by the Department of Mathematics, Mugberia Gangadhar Mahavidyalaya on and from 09.12.2021 to 20.12.2021.

Date: 20th December 2021


Dr. Kalpada Maity
Course Coordinator
Mugberia Gangadhar Mahavidyalaya


Dr. Swapan Kumar Misra
Principal
Mugberia Gangadhar Mahavidyalaya

Department



Short Term Course
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RESEARCH METHODOLOGY
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Certificate

This is to certify that Shri/Smt/Ms Amita Mondal.....has successfully participated and completed 30 hours for the Short Term Course on Research Methodology by the Department of Mathematics, Mugberia Gangadhar Mahavidyalaya on and from 09.12.2021 to 20.12.2021.

Date: 20th December 2021


Dr. Kalipada Maity
Course Coordinator
Mugberia Gangadhar Mahavidyalaya


Dr. Swapan Kumar Misra
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RESEARCH METHODOLOGY
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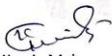
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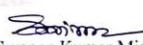
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Certificate

This is to certify that Shri/Smt/Ms Birendra Pahari.....has successfully participated and completed 30 hours for the Short Term Course on Research Methodology by the Department of Mathematics, Mugberia Gangadhar Mahavidyalaya on and from 09.12.2021 to 20.12.2021.

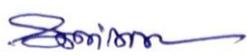
Date: 20th December 2021


Dr. Kalipada Maity
Course Coordinator
Mugberia Gangadhar Mahavidyalaya


Dr. Swapan Kumar Misra
Principal
Mugberia Gangadhar Mahavidyalaya

Department




24.12.2021
Principal
Mugberia Gangadhar Mahavidyalaya