



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 of
Certificate Course on
Chemical Lab Technician

Course Period: 20th August 2022 – 22th September 2022

Organized By

Department of Chemistry (UG)

Mugberia Gangadhar Mahavidyalaya

Bhupatinagar, Purba Medinipur-721425

Accredited by NAAC with grade B+

Affiliated to

Vidyasagar University



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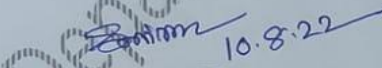
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Date: 10-08-2022

Department of Chemistry Notice

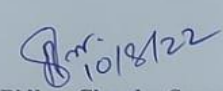
This is to hereby notify all the students that the dept. of Chemistry, Mugberia Gangadhar Mahavidyalaya is going to organize a certificate course on “**Chemical Lab Technician**” from 20th August 2022– 22th September 2022 (30 hrs) in our department through offline mode. The course will be delivered by lecture, interaction and doubt clearance along with an examination on topic related to Chemical lab technician. The course will be conduct for M.Voc. and Chemistry (Hons.) Course. All the students of our college, especially of our dept. are requested to be attend in this course.


Dr. Swapan Kumar Misra
Principal

Mugberia Gangadhar Mahavidyalaya

Principal
Mugberia Gangadhar Mahavidyalaya




Dr. Bidhan Chandra Samanta
HOD, Chemistry Department

Mugberia Gangadhar Mahavidyalaya



Minutes of the Departmental meeting held on 15.08.2022

Members present:

1. Dr. Bidhan Ch. Samanta, HOD, Associate Prof., Dept. of Chemistry
2. Dr. Narottam Sutradhar, Assistant Prof., Dept. of Chemistry
3. Mr. Ribhu Maity, SACT Teacher, Dept. of Chemistry.
4. Mr. Mrigendu Midya, SACT Teacher, Dept. of Chemistry.
5. Mr. Goutam Kr. Jana, SACT Teacher, Dept. of Chemistry.
6. Mrs. Minakshi Maity. SACT Teacher, Dept. of Chemistry

A short meeting was arranged at 3 pm regarding the implementation of certificate course on “*Chemistry Lab Technician*” in our Department. All teachers of the department joined the meeting in time. **Dr. Bidhan Chandra Samanta, HOD of Dept. of Chemistry** chaired the meeting.

Decision taken in the meetings:

- (1) It is decided that **Dr. Bidhan Chandra Samanta** will be course director of this course.
- (2) It is decided that **Dr. Narottam Sutradhar** will be coordinator of this course.
- (3) The course period will be scheduled from: **20th August 2022– 22th September 2022**. It is decided that the course will be delivered by lecture, interaction and doubt clear with an examination on topic related to the topic. 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.

About The Course

In every scientific laboratory, there is a set of fundamental skills that needs to be mastered. A solid foundation of core lab skills is essential to produce accurate, reproducible results, as well as to prevent damaging expensive equipment and endangering the safety of the lab mates. In addition, with an increasing focus on reproducibility, it be somebody's duty to ensure that they are practiced in basic skills and up to date with the latest advances in lab techniques.

In this respect, laboratory equipment management, instrument selection, initial selection assessment, budgeting, installation, detailed training and instruction for all stages of the instruments operation, laboratory evaluation, documentation of results, developing maintenance plan, preventive maintenance, equipment inventory, general laboratory safety measures will be taught throughout the classes.

Chemical technicians conduct laboratory tests to help scientists analyze the properties of materials. Chemical technicians often work in laboratories or in manufacturing facilities, such as chemical manufacturing plants. Most technicians work full time. Employment of chemical technicians is projected to grow 4 percent from 2021 to 2031, about as fast as the average for all occupations.

About 7,800 openings for chemical technicians are projected each year, on average, over the decade. Many of those openings are expected to result from the need to replace workers who transfer to different occupations or exit the labor force, such as to retire.

Course Learning Outcome

- Handle different types of instrument. Perform routine tasks and assigned procedures to support the purification, analysis and synthesis of chemical compounds and samples.
- Use prescribed laboratory procedures to conduct basic manual and instrumental quantitative analysis and report results.
- Operate and *troubleshoot** chemical analysis instruments and equipment to assure accurate results.
- Perform quality assurance and quality control procedures, including basic statistical analyses, in accordance with international and industry standards and government regulations.
- Complete chemical laboratory tasks and projects using computer and information technologies.
- Implement health and safety practices to ensure a safe laboratory environment for oneself and others.
- Contribute to the efficient and ethical use and promotion of chemical laboratory resources through established *sustainability** practices.

CERTIFICATE OF PARTICIPATION:

The participants will be provided Certificates on successful completion of the course.

VENUE: Chemistry Lab, Department of Chemistry (UG), Mugberia Gangadhar Mahavidyalaya.

NOTE: The Evaluation will be done by MCQ test and Attendance is Compulsory.

Syllabus of *Chemical Lab Technician*

This course is offered to students in the Chemical and Environmental programs. It is intended as an introduction to the broad field of chemistry. Students will be introduced to applications of chemistry and the uses of chemicals in the world around us. Students will explore fundamental concepts of chemistry such as chemical nomenclature, atomic structure, units of measurement, physical and chemical changes, balancing chemical reactions, percent composition, reaction stoichiometry, solubility, the activity series, solution concentration, solution stoichiometry and the gas laws. During laboratory exercises students will have an opportunity to execute and investigate these fundamental concepts.

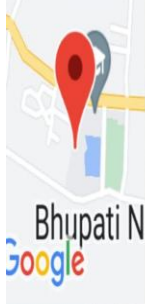
Course units

1. General laboratory safety measures
2. Laboratory equipment management
3. Instrument selection
4. Initial selection assessment
5. Budgeting
6. Detailed training and instruction for all stages of the instruments operation
7. Laboratory evaluation,
8. Documentation of results
9. Developing maintenance plan and preventive maintenance
10. Equipment inventory

PHOTOS OF CHEMICAL LAB TECHNICIAN



GPS Map Camera



Bhupati Nagar, West Bengal, India

2P2H+5CR, Mugberia Hospital Rd, Bhupati Nagar, West Bengal 721425, India

Lat 22.000538°

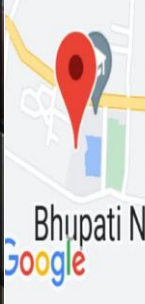
Long 87.728478°

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MGM Mugberia Gangadhar Mahavidyalaya



GPS Map Camera



Bhupati Nagar, West Bengal, India

2P2H+5CR, Mugberia Hospital Rd, Bhupati Nagar, West Bengal 721425, India

Lat 22.00055°

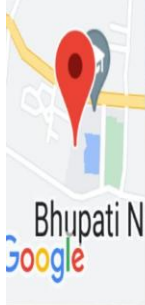
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GPS Map Camera



Bhupati Nagar, West Bengal, India

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Lat 22.000548°

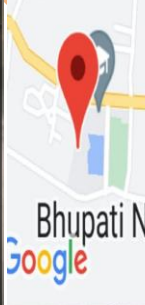
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GPS Map Camera



Bhupati Nagar, West Bengal, India

2P2H+5CR, Mugberia Hospital Rd, Bhupati Nagar, West Bengal 721425, India

Lat 22.000531°

Long 87.728472°

02/12/22 04:50 PM GMT +05:30

MGM Mugberia Gangadhar Mahavidyalaya

Depart

CHEMICAL LAB TECHNICIAN

Student Class Attendance List

Sl. No.	Subject	Name of Students	No.
1	M.Voc	SOUMEN DAS	0001
2	M.Voc	AYAN MONDAL	0002
3	M.Voc	URMILA BAG	0003
4	M.Voc	SAIKAT MONDAL	0005
5	M.Voc	SRIKRISHNA JANA	0006
6	M.Voc	SUDESHNA MAITY	0007
7	M.Voc	SURIYA MAJHI	0008
8	M.Voc	SUSMITA KAMILA	0009
9	M.Voc	SIULI KAR	0010
10	M.Voc	BARNALI BARIK	0012
11	M.Voc	PRATIMA DAS	0014
12	M.Voc	KEDARNATH MAITY	0016
13	M.Voc	JOYSRI JANA	0017
14	M.Voc	SATHI DAS	0018
15	M.Voc	AJOY ROY	0020
16	M.Voc	ARKA MUKHERJEE	0021
17	M.Voc	DIPANWITA MAITY	0023
18	M.Voc	INDRAJIT DALAI	0024
19	M.Voc	PRERONA MAITY	0030
20	M.Voc	RAKHI MAITY	0031
21	M.Voc	SATHI CHATTERJEE	0032
22	M.Voc	SHIULIE DEY	0033
23	M.Voc	SHREYASRI ROY CHOWDHURY	0034
24	M.Voc	TANUSHREE JANA	0036



Certificate Course on
"CHEMICAL LAB TECHNICIAN"

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MUGBERIA GANGADHAR MAHAVIDYALAYA

Bhupatinagar :: Purba Medinipur :: West Bengal :: 721425

Participation Certificate

This is to certify that Mr./Mrs. *Susmita Kamila*, a student of Department of **MUGBERIA GANGADHAR MAHAVIDYALAYA** has successfully participated & completed the thirty hours Certificate course on "Chemical Lab Technician" and obtained grade 'A'.

Note : The grade should be as follows ; A+ : 80 percent and above A : 65 percent to less than on equal to 79
| B : 50 percent to less than or equal to 64 | C : 35 percent to less than or equal to 49 | F : 34 percent and below.

Date : 31th Sept. 2022
Place : Mugberia Gangadhar Mahavidyalaya

[Signature]
Dr. Bidhan Chandra Samanta
Associate Prof. & HOD, Chemistry
Course Coordinator

[Signature]
Dr. Prasenjit Ghosh
coordinator of
IQAC

[Signature]
Dr. S. K. Misra
Principal
Mugberia Gangadhar Mahavidyalaya



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Participation Certificate

This is to certify that Mr./Mrs. *Susmiya Marhi*, a student of Department of **MUGBERIA GANGADHAR MAHAVIDYALAYA** has successfully participated & completed the thirty hours Certificate course on "Chemical Lab Technician" and obtained grade 'A'.

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Associate Prof. & HOD, Chemistry
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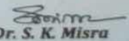
This is to certify that Mr./Mrs. Snikrishna Jana, a student of Department of **MUGBERIA GANGADHAR MAHAVIDYALAYA** has successfully participated & completed the thirty hours Certificate course on "Chemical Lab Technician" and obtained grade 'A'.

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This is to certify that Mr./Mrs. Sudeshna Maity, a student of Department of **MUGBERIA GANGADHAR MAHAVIDYALAYA** has successfully participated & completed the thirty hours Certificate course on "Chemical Lab Technician" and obtained grade 'A'.

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Participation Certificate

This is to certify that Mr./Mrs. *Sainat Mondal*, a student of Department of **MUGBERIA GANGADHAR MAHAVIDYALAYA** has successfully participated & completed the thirty hours Certificate course on "Chemical Lab Technician" and obtained grade 'A'.

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[Signature]
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Course Coordinator

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Participation Certificate

This is to certify that Mr./Mrs. *Urmila Bag*, a student of Department of **MUGBERIA GANGADHAR MAHAVIDYALAYA** has successfully participated & completed the thirty hours Certificate course on "Chemical Lab Technician" and obtained grade 'A'.

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Participation Certificate

This is to certify that Mr./Mrs. Ayau Mondal , a student of Department of **MUGBERIA GANGADHAR MAHAVIDYALAYA** has successfully participated & completed the thirty hours Certificate course on “Chemical Lab Technician” and obtained grade ‘A’.

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This is to certify that Mr./Mrs. Soumen Das , a student of Department of **MUGBERIA GANGADHAR MAHAVIDYALAYA** has successfully participated & completed the thirty hours Certificate course on “Chemical Lab Technician” and obtained grade ‘A’.

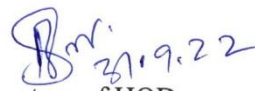
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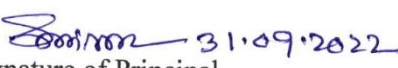

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 Signature of HOD
 Dept. of Chemistry




 Signature of Principal
 Mugberia Gangadhar Mahavidyalaya
 Principal
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