Affiliated to Sidho Kanho Birsha University, Purulia



### Department of Chemistry

Add-on/ Certificate Course

Safety Precautions in Chemistry Lab

Session: 2021-22

### **Brochure**



### Panchakot Mahavidyalaya sarbari, neturia, purulia, west bengal

afety Precautions in Chemistry Lab Add On Course, Dept. of Chemistry Duration: 30 hrs.

Objective of this course:

The chemistry laboratory with its equipment, glassware, and chemicals has the potential for accidents. In order to avoid dangerous accidents, or to minimize their damage, precautions must be taken by every student to ensure the safety of everyone working in the laboratory.

· This course offers to learn safety rules for working with chemicals and participating in a safe manner when carrying out lab procedures.

· This helps the students to Handling Chemicals safely.

· Students Use chemicals only as directed and for their intended purpose.

· This course helps students to identify and understand the various functions of laboratory equipments.

· Demonstrate proper laboratory techniques.

**Course Content** 

Module 1 (6 hours):

About appropriate and inappropriate lab attire, Apron-Rubber or Plastic, Lab Protective Equipment, "Typical PPE" for the lab, Specialized PPE

Module 2 (7 hours):

Emergencies (In the case of Chemical Contact), Emergency Response Procedure and instructions poster, Incident Report.

Module 3 (3 hours):

Hazardous material, Waste disposal, Specific waste disposal instructions, Clean Lab Equipment

Module 4 (5 hours):

Course Coordinator: Dr. S M Wahidur

Rahaman, Dept. of Chemistry
For detailed schedule log-on to: www.panchakoti

Soldering Safety (Prevention of burns and fires), Proper PPE (Safety glasses, long pants and closedtoed shoes), Maintaining a hygienic work, Use of Decicator in Chemistry Lab

Module 5 (2 hours):

About Light sensitive chemicals Desiccants

Module 6 (2 hours):

Properties of reactive metals Properties of some lab based chemicals

Module 7 (5 hours): Hands on training.

To The Principal Panchakot Mahavidyalaya Sarbari, Neturia, Purulia

Applicant: Dr. S. M. Wahidur Rahaman, Department of Chemistry

Subject: Proposal for certificate course in 'Safety Precautions in Chemistry Lab' for the session 2021-2022

Respected Sir,

With respect to the above mentioned subject, I am submitting herewith the proposal to conduct the certificate course in 'Safety Precautions in Chemistry Lab' by the department of Chemistry of our college. This course will discuss the chemistry laboratory with its equipment, glassware, and chemicals that have the potential for accidents. In order to avoid dangerous accidents, or to minimize their damage, precautions must be taken by every student to ensure the safety of everyone working in the laboratory.

Hope you will consider my application and I kindly request you to sanction the same.

Date: 04.05.2022

Place: Sarberi

Your sincerely, HOD, Chemistry

Enclosure: (1) Proposal (2) Curriculum of the course

Affiliated to Sidho Kanho Birsha University, Purulia

### Proposal for Conducting Short Term Certificate Courses Session: (2021-2022)

### 1. Details of the applicant department:

I. Name of the college: Panchakot Mahavidyalaya,

II. Address of the college: Sarbari, PO: Neturia, District: Purulia, Pin: 723121

III. Name of the applicant department: Chemistry

### 2. Details of the course proposed:

I. Name of the course: Safety Precautions in Chemistry Lab

II. Target participants: Undergraduate students from any stream

III. Duration of the course: 30 hrs. IV. Medium of instruction: English

### 3. Details of the faculty:

I. Whether the college provides degree related to the proposed course: No

II. Whether the course is prepared by experts from related field: yes (by departmental faculty)

III. Information of course coordinator:

Name	Department	Qualification
Dr. S. M. Wahidur Rahaman	Chemistry	Ph. D. (Chemistry)

IV. Details of faculty members to be appointed for this course:

Sr. No.	Name	Department	Qualification
1	Dr. S. M. Wahidur		
	Rahaman	Chemistry	Ph. D. in Chemistry
2	Dr. Sourav Chatterjee	Chemistry	Ph.D. in Chemistry

### 4. Details of the infrastructure needed/available for this course:

I. Classroom: Available

II. Books: Available in central library

III. Computer facility: Computer lab and departmental computer facility

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Signature of Course coordinator

Affiliated to Sidho Kanho Birsha University, Purulia

Department of Chemistry
Certificate course in Safety Precautions in Chemistry Lab
Syllabus (2021-2022)

**Duration: 30 hrs** 

### Module 1 (6 hours):

About appropriate and inappropriate lab attire (2 hrs), Apron- Rubber or Plastic, Lab Protective Equipment (2 hrs), "Typical PPE" for the lab, Specialized PP (2 hrs)

### Module 2 (7 hours):

Emergencies (In the case of Chemical Contact) (2 hrs), Emergency Response Procedure and instructions poster (4 hrs), Incident Report (1hr).

### Module 3 (3 hours):

Hazardous material, Waste disposal (1.5 hrs), Specific waste disposal instructions, Clean Lab Equipment (1.5 hrs).

### Module 4 (5 hours):

Soldering Safety (Prevention of burns and fires) (2 hrs), Proper PPE (Safety glasses, long pants and closed-toed shoes) (1.5 hrs), Maintaining a hygienic work and Use of Decicator in Chemistry Lab (1.5 hrs)

### Module 5 (2 hours):

About Light sensitive chemicals (1 hr), Desiccants (1 hr).

### Module 6 (2 hours):

Properties of reactive metals (1 hr), Properties of some lab based chemicals (1 hr).

### Module 7(5 hours):

Hands on training (5 hrs).

Assessment: Written Test and/or Viva-Voce

Signature Course Coordinator

Affiliated to Sidho Kanho Birsha University, Purulia

Department of Chemistry
Certificate course in Safety Precautions in Chemistry Lab
Session: (2021-2022)

Course coordinator: Dr. S. M. Wahidur Rahaman, HOD, Chemistry

### Details of the Course

Course Objective: The objective of this course is to ensure laboratory safety and proficiency among participants. Through modules covering appropriate lab equipment, emergency response procedures, hazardous material handling, and proper waste disposal. The course will discuss to mitigate risks and respond effectively to incidents. Additionally, the course aims to enhance the understanding of soldering safety, chemical properties, and hands-on training, fostering a culture of safety and competence in laboratory environments.

### **Schedule**

Day	Hours	Timing/Duration	Resource Person	Venue	Topic
1	02	4:00-6:00 PM	Dr. S. M. Wahidur Rahaman (WR)	Dept of Chemistry	Module-I
2	02	4:00-6:00 PM	Dr. Sourav Chatterjee (SC)	Dept of Chemistry	Module-I
3	02	4:00-6:00 PM	WR	Dept of Chemistry	Module-I
4	02	4:00-6:00 PM	SC	Dept of Chemistry	Module-II
5	02	4:00-6:00 PM	WR	Dept of Chemistry	Module-II
6	02	4:00-6:00 PM	SC	Dept of Chemistry	Module-II
7	02	4:00-6:00 PM	WR	Dept of Chemistry	Module-III

8	02	4:00-6:00 PM	SC	Dept of Chemistry	Module-III
9	02	4:00-6:00 PM	WR	Dept of Chemistry	Module-IV
10	02	4:00-7:00 PM	SC	Dept of Chemistry	Module-IV
11	02	4:00-6:00 PM	WR	Dept of Chemistry	Module-V
12	02	4:00-6:00 PM	SC	Dept of Chemistry	Module-VI
13	02	4:00-6:00 PM	WR	Dept of Chemistry	Module-VII
14	02	4:00-6:00 PM	SC	Dept of Chemistry	Module-VII
15	02	4:00-6:00 PM	WR	Dept of Chemistry	Module-VII

**Expected Outcome:** This course offers to learn safety rules for working with chemicals and participating in a safe manner when carrying out lab procedures. This helps the students to handle chemicals safely. Students use chemicals only as directed and for their intended purpose. This course helps students to identify and understand the various functions of laboratory equipments. Demonstrate proper laboratory techniques.

Signature Course Coordinator

Affiliated to Sidho Kanho Birsha University, Purulia

Department of Chemistry Certificate course in Safety Precautions in Chemistry Lab Session: (2021-2022)

Ref No:

Date: ||.05.22

### Notice

The Department of Chemistry at Panchakot Mahavidyalaya is pleased to announce upcoming Certificate course on the above mentioned topic via offline mode 17/5/2022 to 4/6/2022. If you're interested in enhancing your skills and knowledge, we encourage you to reach out to the department's designated teachers/course coordinator, collect the information brochures and enroll yourself for the course.

The details of the course schedule, duration and expected course outcome etc. are available at the concerned department.

HOD, Department of Chemistry

Principal.

Panchakot Mahavidyalaya

Sarbari, Neturia, Purulia

Principal PANCHAKOT MAHAVIDYALAYA Sarbari + Neturia + Purulia

### PANCHAKOT MAHAVIDYALAYA

SARBARI, NETURIA, PURULIA

Affiliated to Sidho Kanho Birsha University, Purulia

Department of ... Chemistry ...

Certificate Course Name Safety Precautions in Chemistry Leb Session: (2021.-20.22...)

### **List of Enrolled Students**

Sr. No.	Students Name	Roll Number	Seme	Student Signature
1	MONISHA TUDU	210000 807		Monisha Tudu
2	KHAMA GOPE	210000495	11	Khama Gope
3	APARNA GIORAI	21000 0464	Som 2	Aparna Gorai
4-	SUDESHNA PAL	2/0000/20	2	S. Pal
5.	PIDUSHCHAKRABORTS	210000577	2	south churrent
6.	PUJA BOURI	210001707	2 sem	_ 0
70	SUJATABAURI	210001044	2	Bujara Bauni
8.	ANKITA CHAR	210000016	2	Ankita Char
9.	DEBJANI GIOPE	210000770	2	Debjari Gope
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Principal
PANCHAKOT MAHAVIDYALAYA
Sarbari+Neturia+Purulia

Schman

HOD, Dept. of. Chemistry Course Coordinator

Affiliated to Sidho Kanho Birsha University, Purulia

Department of Chemishing Lab

Certificate Course Safety
Session: (20.21....-20.2.2...........)

Attendance Sheet

Sr.	Name of Student								Day and	d Month	ج						
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Course Coordinator Below

> PANCHAKOT MAHAVIDYALAYA Sarbari.Neturia.Purulia Principal

Affiliated to Sidho Kanho Birsha University, Purulia

Department of Chemisky Certificate Course:
Certificate Course:
Safety Precautions in Chemistry Lob
Safety Precautions in Chemistry Lob Session: (20.2120.22.)

### Result

### Full Marks:

Sr. No.	Name of Student	Marks Obtained
1.	MONISHA TUDU	A
2.	KHAMA GOPE	A
3.	APARNA GORAL	A
9.	SUDESHNA PAL	В
5.	PIJUSH CHAKRABORTY	A
6.	PUJA BOURI	Α
7.	SUJATA BAURI	A
8.	ANKITA CHAR	B
9.	DEBJANI GOPE	A

Principal
PANCHAKOT MAHAVIDYALAYA
Sarbari + Neturia + Purmiia

Signature Course Coordinator



Affiliated to Sidho Kanho Birsha University, Purulia

## PANCHAKOT MAHAVIDYALAYA SARBARI, NETURIA, PURULIA

Add On/ Certificate Course

Organized by: Department of .... Chemishy.....

# CERTIFICATE OF COMPLETION

Session: (20.2(...-20.2.2..)

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This is to certify that Mr./Ms Monisha Tubu-	
Mr./Ms	
certify that	•
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of ...(\_Herry...in...)....Hissters........ Department has successfully completed Add

On/Certificate course entitled:

Safety Precautions in chemistry Lab

for session ..... 2021 - 2022

Burn

Course Coordinator

HOD (Organizing Dept)

Dept)

of the

Principal
Principal
Principal
PANCHAKOT MAHAVIDYALAYA
Sarbari\*Neturia\*Purdia