

PANCHAKOT MAHAVIDYALAYA
SARBARI, NETURIA, PURULIA

Affiliated to Sidho Kanho Birsha University, Purulia



Department of Botany

Add-on/ Certificate Course

**Environmental Hazards and
Sustainability**

Session: 2021-22

Brochure



Panchakot Mahavidyalaya

SARBARI, NETURIA, PURULIA, WEST BENGAL

Enviromental Hazards and Sustainability

Add On Course, Dept. of Botany

Duration: 35 hrs.

For detailed schedule log-on to: www.panchakotmv.ac.in

Course Coordinator: Srimanta Kanji, HOD, Dept. of Botany

**NO
FEES**

Module 1 (10 hours):

Introductory Class , Green house and its effects , Wildlife conservation (Importance, reason of extinction, methods of conservation, steps taken to save wildlife), Plastic pollution and Preventive measures, Xenobiotics in our daily Life, Pharmaceutical Pollution

Module 2 (11 hours):

Organic farming , Bioremediation , Water & water management , Pollen, Pollination & allergen with emphasis with apiculture, Biodiversity & conservation

Module 3 (14 hours):

Cancer as an outcome of Environmental hazards, Environmental hazards and Digestive system , Neurodegenerative diseases related to Environmental hazards , Effect of Environmental hazards on human Respiratory system, Mental health and environment

Aim of the Course

To understand the interactions between living organisms and their environment, as well as the physical and chemical processes that shape the natural world.

- To identify and mitigate environmental hazards and develop strategies to reduce the impact of human activities on the environment.
- Promoting sustainable development.
- To inform policy decisions related to environmental protection, land use, and natural resource management.
- To increase awareness and understanding of environmental issues and promote environmentally responsible behavior.

Participant: Undergraduate students from any stream can join us.

To
The Principal
Panchakot Mahavidyalaya
Sarbari, Neturia, Purulia

Applicant: Srimanta Kanji, Department of Botany

Subject: Proposal for certificate course in 'Environmental Hazards and Sustainability'
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 "Environmental Hazards and Sustainability" by the department of Botany of our college. This course will create environment-awareness among the students, providing them practical knowledge to deal with environmental hazards.

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

Date: 17.03.2022

Place: Sarbari

Srimanta Kanji

Your sincerely,
HOD, Botany

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

PANCHAKOT MAHAVIDYALAYA

SARBARI, NETURIA, PURULIA

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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: Botany

2. Details of the course proposed:

- I. Name of the course: Environmental Hazards and Sustainability
- II. Target participants: Undergraduate students from any stream
- III. Duration of the course: 35 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:

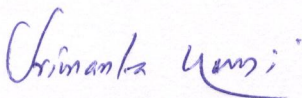
Name	Department	Qualification
Srimanta Kanji	Botany	MSc (Botany)

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

Sr. No.	Name	Department	Qualification
1	Srimanta Kanji	Botany	MSc in Botany
2	Santosh Pandey	Botany	MSc in Botany

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


Signature of Course coordinator

PANCHAKOT MAHAVIDYALAYA

SARBARI, NETURIA, PURULIA

Affiliated to Sidho Kanho Birsha University, Purulia

Department of Botany

Certificate course in Environmental Hazards and Sustainability **Syllabus (2021-2022)**

Duration: 35 hrs

Module 1 (10 hours):

Introductory Class, Green house and its effects (2 hrs) ,
Wildlife conservation (Importance, reason of extinction, methods of conservation, steps taken to save wildlife) (4 hrs),
Plastic pollution and Preventive measures (2 hrs),
Xenobiotics in our daily Life (1 hr),
Pharmaceutical Pollution (1 hr),

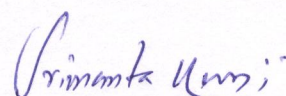
Module 2 (11 hours):

Organic farming (2 hrs),
Bioremediation (1 hr),
Water & water management (3 hrs),
Pollen, Pollination & allergen with emphasis with apiculture (3 hrs),
Biodiversity & conservation (2 hrs),

Module 3 (14 hours):

Cancer as an outcome of Environmental hazards (2 hrs),
Environmental hazards and Digestive system (2 hrs),
Neurodegenerative diseases related to Environmental hazards (2 hrs),
Effect of Environmental hazards on human Respiratory system (2 hrs),
Mental health and environment (2 hrs),
Field Visit (4 hrs)

Assessment: Written Test and/or Viva-Voce



Signature
Course Coordinator

PANCHAKOT MAHAVIDYALAYA

SARBARI, NETURIA, PURULIA

Affiliated to Sidho Kanho Birsha University, Purulia

Department of Botany

Certificate course in Environmental Hazards and Sustainability
Session: (2021-2022)

Course coordinator: Srimanta Kanji, HOD, Botany

Details of the Course

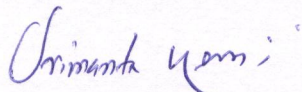
Course Objective: (1) To understand the interactions between living organisms and their environment, as well as the physical and chemical processes that shape the natural world. (2) To identify and mitigate environmental hazards and develop strategies to reduce the impact of human activities on the environment. (3) Promoting sustainable development. (4) To inform policy decisions related to environmental protection, land use, and natural resource management. (5) To increase awareness and understanding of environmental issues and promote environmentally responsible behavior.

Schedule

Day	Hours	Timing/Duration	Resource Person	Venue	Topic
1	02	4:00-6:00 PM	Santosh Pandey (SP)	Dept of Botany	Module-I
2	02	4:00-6:00 PM	Srimanta Kanji (SK)	Dept of Botany	Module-I
3	02	4:00-6:00 PM	SK	Dept of Botany	Module-I
4	02	4:00-6:00 PM	SP	Dept of Botany	Module-I
5	02	4:00-6:00 PM	SK	Dept of Botany	Module-I
6	02	4:00-6:00 PM	SP	Dept of Botany	Module-II
7	02	4:00-6:00 PM	SK	Dept of Botany	Module-II
8	02	4:00-6:00 PM	SP	Dept of	Module-II

				Botany	
9	02	4:00-6:00 PM	SP	Dept of Botany	Module-II
10	03	4:00-7:00 PM	SK	Dept of Botany	Module-II
11	02	4:00-6:00 PM	SP	Dept of Botany	Module-III
12	02	4:00-6:00 PM	SK	Dept of Botany	Module-III
13	02	4:00-6:00 PM	SP	Dept of Botany	Module-III
14	02	4:00-6:00 PM	SK	Dept of Botany	Module-III
15	02	4:00-6:00 PM	SK	Dept of Botany	Module-III
16	04	2:00-6:00 PM	SP	Field	Module-III

Expected Outcome: This add-on course will help participants to understand the interactions between living organisms and their environment, as well as the physical and chemical processes that shape the natural world. This course will provide students knowledge to identify and mitigate environmental hazards and develop strategies to reduce the impact of human activities on the environment. The field work associated to this add-on course will promote awareness for sustainable development in the locality.


Signature
Course Coordinator

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Department of Botany

Certificate course in Environmental Hazards and Sustainability
Session: (2021-2022)

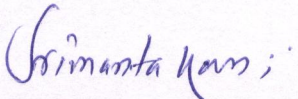
Ref No:


Date: 25.03.2022

Notice

This is to notify that the Department of Botany, Panchakot Mahavidyalaya is going to conduct an Add On/Certificate courses under the title as stated above. The course will be conducted from 2/4/2022 to 28/4/2022 in offline mode.

Interested students are requested to contact the concerned teacher(s) of the department/course coordinator for further course details (such as course duration, schedule, module etc.) as well as enrollment in the course.


HOD, Department of Botany


Principal
PANCHAKOT MAHAVIDYALAYA
Sarbari, Neturia, Purulia
Principal,

Panchakot Mahavidyalaya
Sarbari, Neturia, Purulia

PANCHAKOT MAHAVIDYALAYA

SARBARI, NETURIA, PURULIA

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Department of ... Botany

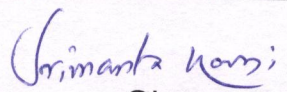
Certificate Course Name Environmental Hazards and Sustainability

Session: (20.21.-20.22..)

List of Enrolled Students

Sr. No.	Students Name	Roll Number	Semester	Student Signature
1	DEBJANI GOPE	210000770	11	Debjani Gope
2	SONIYA MAJEE	210001223	2	soniya majee
3	IRFAN ANSARY	210000151	2	Irfan Ansary
4	PUJA TANTUBAY	2020012287	2	puja Tantubay
5	ANKITA CHAR	210000016	2	Ankita Char
6	PUJA BOWRI	210001707	2	Puja Bowri
7	SUJATABAURI	210001044	2	Sujata Bauri


Principal
PANCHAKOT MAHAVIDYALAYA
Sarbari-Neturia-Purulia


Signature
Course Coordinator

**PANCHAKOT MAHAVIDYALAYA
SARBARI, NETURIA, PURULIA**

Affiliated to Sidho Kanho Birsha University, Purulia

Department of ... Botany

Certificate Course : Environmental Hazards and Sustainability

Session: (20.21.....-20.22.....)

Attendance Sheet

Sr. No.	Name of Student	Day and Month															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1)	DEBJANI GOPE	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
2)	SONIYA MAJEE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3)	IRFAN ANSARY	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
4)	PUJA TANTUBAY	P	P	P	P	P	P	P	P	.	P	P	P	P	P	P	P
5)	ANKITA CHAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6)	PUJA BOURI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P
7)	SUJATA BAURI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

Self

Principal
PANCHAKOT MAHAVIDYALAYA
Sarbani • Neturia • Purulia

Jyomanta Umi:-

Course Coordinator

PANCHAKOT MAHAVIDYALAYA

SARBARI, NETURIA, PURULIA

Affiliated to Sidho Kanho Birsha University, Purulia

Department of ... Botany

Certificate Course:

... Environmental Hazards and Sustainability

Session: (20.21.....-20.22.)

Result

Full Marks:

Sr. No.	Name of Student	Marks Obtained
1)	DEBJANI GOPE	A
2)	SONIYA MAJEE	B
3)	IRFAN ANSARY	A
4)	PUJA TATUBAY	B
5)	ANKITA CHAR	A
6)	PUJA BOURI	A
7)	SUJATA BAURI	A

Self

Principal

PANCHAKOT MAHAVIDYALAYA
Sarbari • Neturia • Purulia

Srimanta Karm

Signature

Course Coordinator



Affiliated to Sidho Kanho Birsha University, Purulia
PANCHAKOT MAHAVIDYALAYA
SARBARI, NETURIA, PURULIA
Add On/ Certificate Course

Organized by: Department of *Botany*.....

CERTIFICATE OF COMPLETION

Session: (20*21*.....-20*22*..)

This is to certify that Mr./Ms *DEBJANI HOPE*.....
of *Geography (Hons.)*..... Department has successfully completed Add

On/Certificate course entitled:

Environmental Hazards and Sustainability.....
for session *2021-2022*.....

Sumanta Uans,
Course Coordinator

Sumanta Uans,
HOD (Organizing Dept)

Sgt
Principal
Principal
PANCHAKOT MAHAVIDYALAYA
Sarbari-Neturia-Purulia