BHATTER COLLEGE, DANTAN
(Autonomous)
NAAC Accredited 'A' Grade College

Ref. No.BC632/25 Date 13.12.2025

From: The Principal
Bhatter College, Dantan (Autonomous)
Dantan, Paschim Medinipur

To: The Secretary
Government of West Bengal
Department of Science & Technology and Biotechnology (DSTBT)
Vigyan Chetana Bhavan, Block–DD, Plot–26/B
Sector–I, Salt Lake
Kolkata–700064

Sub: ***Application for Funding to Organize a Science Popularization Programme (Workshop Type)***

Sir/Madam,

I am pleased to submit, on behalf of our institution, an application for financial support to organize a programme titled **"Engaging Workshop on New Frontiers of IT and Pure Science for School & College Students"** on our college campus. This workshop aims to promote scientific awareness, inspire young learners, and familiarize them with recent advancements in Information Technology and Pure Science through interactive, activity-based, and engaging sessions.

The programme will be coordinated by **Dr. Kriti Ranjan Sahu**, Assistant Professor of Physics & HoD, Dept. of Physics, Bhatter College, Dantan who will serve as the Programme Coordinator (PC). We believe that this initiative will significantly contribute to fostering scientific curiosity and strengthening the culture of science popularization among students of this region.

I, therefore, earnestly request you to kindly consider and approve our proposal along with the necessary funding support for the successful conduct of the workshop. Your cooperation and encouragement will greatly assist us in advancing the cause of science education and outreach.

We shall remain grateful for your support.

Yours sincerely,

13/12/25

Prof. (Dr.) Giridhari Panda
Principal
Bhatter College, Dantan
(Autonomous)
Dantan, Paschim Medinipur

Mb: 9800045250

Encl. : 1. Copy of Application of PC.
2. Prescribed Application Format for Workshop.

To
The Secretary
Government of West Bengal
Department of Science & Technology and Biotechnology (DSTBT)
Vigyan Chetana Bhavan, Block–DD, Plot–26/B
Sector–I, Salt Lake
Kolkata–700064

Sub: Application for funding to organize a Science Popularization Programme (Workshop Type)

Sir/Madam,

We are interested in organizing a programme titled **"Engaging Workshop on New Frontiers of IT and Pure Science for School & College Students"** at our college campus. The aim of this workshop is to promote scientific awareness, inspire young learners, and introduce them to recent advancements in Information Technology and Pure Science through interactive and engaging sessions.

Therefore, I, **Dr. Kriti Ranjan Sahu**, as the Programme Coordinator (PC), respectfully request you to kindly consider and approve our proposal along with the necessary funding support for conducting the workshop successfully.

We shall be grateful for your cooperation and encouragement in promoting science popularization among students of this region.

DR. KRITI RANJAN SAHU 13/12/2025
Asst. Professor & HoD,Dept. of Physics
Bhatter College, Dantan-721426
Paschim Midnapur, West Bengal, India
Email:kriti.basis2020@gmail.com

Best wishes,
Dr. Kriti Ranjan Sahu
Programme Coordinator
Department of Physics
Bhatter College, Dantan (Autonomous)
Dantan, Paschim Medinipur, West Bengal
Email: **kriti.basis2020@gmail.com**
Mobile: **8250808742 / 7602764831 (WhatsApp)**

Government of West Bengal
Department of Science & Technology and Biotechnology(DSTBT)
Vigyan Chetana Bhavan, Block-DD, Plot-26/B,
Sector-I Salt Lake, Kolkata-700064

Application Format for Science Popularization Programme

1. Programme Type(ref SN11of the Memorandum): **Workshop**

2. Title of the proposed Programme: **Engaging Workshop on New Frontiers of IT and Pure Science for School & College Students**

3. Target Group (Faculty, Teacher, Research Scholar, School/College/ University Student, Community): **School Students, College Students and Teachers**

4. Duration(days): **03 (Three days)**; Tentative Dates of the proposed Programme:**11.03.2026 to 13.03.2026.**

5. Aims, Objectives and Details of the Programme (attach separate sheet, if necessary): **Please See Separate sheet - I**

6. Name, Designation, Postal Address, mobile no. and e-mail id of the (only one) Programme Co-ordinator (PC) (attach separate sheet, if necessary):

   Name: Dr. Kriti Ranjan Sahu
   Designation: Assistant Professor of Physics & HoD
   Postal Address: Dept. Of Physics, Bhatter College, Dantan (Autonomous), Dantan, Paschim Medinipur, West Bengal, 721426.
   Contact No.: +91-8250808742 & Email id: kriti.basis2020@gmail.com

7. Legal status of the Institute (School/College/ University/Institute/ Polytechnic/ ITI/ Autonomousbody/ registered NGO/ Trust etc.): **Affiliated College to UGC, Gr. A with point-3.05 (Accredited by NAAC) & Government-aided Autonomous College under the Vidyasagar University**

8. Date wise detail Programme Schedule(attach separate sheet, if necessary: **Please See Separate sheet - II**

9. Collaborating Institutions/ Organizations, if any, with their specific contribution: **NA**

10. Expected number of participants and list of Resource Persons/Invited Speakers:**80(Students) + 13(Teachers & Faculty) +07 (Resource Persons/Invited Speakers) = 100**

List of Resource Persons/Invited Speakers

Sl No	Name, Address with Pin code	Mobile no. & e-mail id	Educational Qualifications	Present Profession
1.	Dr Subhas Chandra Samanta	9474504308 scsmid09@gmail.com	M.Sc., Ph.D	Associate Prof., (Retd.) Dept. of Physics, Midnapore College & former General Secretary IAPT
2.	Prof. Chittaranjan Sighna	7044231277 crsjuchem@gmail.com	M.Sc., Ph.D, RSC Fellow	Professor, Dept. of Chemistry, Jadavpur University & Secretary of IPS, Kolkata.
3.	Prof. Syed Minhaz Hossain	98305 46483 shminhaz@physics.iiests.ac.in shminhaz@gmail.com	M.Sc., Ph.D	Professor, Dept. of Physics, IIEST, Shibpur, Howrah.
4.	Dr. Makhanlal N. Goswami	9732730573 makhanlal@gmail.com	M.Sc., Ph.D	Associate Prof., Dept. of Physics, Midnapore College (Autonomous), Paschim Medinipur.
5.	Dr. Pradipta Panchyadhy	9476161100 ppcontai@gmail.com	M.Sc., Ph.D	Associate Prof., Dept. of Physics, P. K. College, Contai, Purba Medinipur
6.	Mr. Ayan Ghosh	9836421525 ayanghosh.ag@gmail.com	M.Sc, PG Diploma in Applied GIS & Remote Sensing	IT Personnel (GIS) Special Investigation Division, CAD GIS Center, P. H. & Engineering Dept. Govt of West Bengal.
7.	Mr. Shreyam Jana	9332143204 shreyamjana1986@gmail.com	M.Sc.	Assistant Teacher Bhowanichak Aghore Chand High School (H.S.) Purba Medinipur.

11. Give details of the grant received from DSTBT in last three Financial Years, if any along with the date of submission of UC, Audited SoE, Report etc.:**NA**

12. Name and address of the authority to whom the allotted amount is to be credited (if sanctioned) who will also be responsible for submitting the UC, audited SoE, Programme Completion Report, Feedback, Still and Video photographs etc.of the grant:**NA**

13. Total Estimated Expenditure (**A**)/ Organisation's contribution (**B**)/ Contribution from any other sources (**C**) / Grant expected from DSTBT(**D**):

D :₹176,500 = (**A**:₹ 196,500 – **B**:₹ 20,000 – C: ₹ 0)

(provide detail Budget break-upasper Annexure-I and Bank details as per Annexure-II):

Checklist (put tick) of attachments to be submitted with the application

- Proposed Total Budget with break-up (Annexure-I) and Bank Details (Annexure-II) in Institute/ Organization's letter head: **YES/NO**
- For registered NGO/Trust, the filled-in Application Format must be recommended by the appropriate Recommending Authority, viz., Jt. BDO / BDO / SDO / DM / Executive Officer–Municipality / Commissioner–Municipal Corporation, as the case may be (where the programme is actually going to be held). ~~YES~~/NO
- For registered NGO/Trust, attested copies of the Registration Certificate, latest Renewal Certificate, Memorandum and Rules & Regulations of the Organization, last three years' Audited Statements of Accounts, Annual Reports, etc., and the list of recommended beneficiaries: ~~YES~~/NO

D EC L ARATION

Certified that the details furnished in the filled-in format are correct to the best of our knowledge and belief, and that the amount of financial assistance, if sanctioned, will be utilized solely for the purpose for which it is granted, within the time prescribed by DSTBT. We also undertake to abide by the General Guidelines and Terms & Conditions prescribed by DSTBT and to provide due coverage to DSTBT during the Programme and in all publications/print and electronic media generated from the Programme in future. We further declare that within one month after completion of the Programme, we shall submit the Utilisation Certificate (UC), Audited Statement of Expenditure (Audited-SoE), Programme Completion Report, Feedbacks from the Participants, and still and video photographs, as required.

Signature: 13/12/2025.

(Kriti Ranjan Sahu).

DR. KRITI RANJAN SAHU
Asst. Professor & HoD,Dept. of Physics
Bhatter College, Dantan-721426
Paschim Midnapur, West Bengal, India
Email:kriti.basis2020@gmail.com

Date:

Name of Programme Coordinator:

Dr. Kriti Ranjan Sahu

Designation: Assistant Prof. of Physics

Address: Dept. of Physics, Bhatter College, Dantan (Autonomous), Paschim Medinipur, West Bengal, 721426

Signature: 13/12/25

Giridhari Panda

Principal
Bhatter College, Dantan
(Autonomous)
Dantan, Paschim Medinipur

Date:

Name of Head of the Institution:

Prof. (Dr.) Giridhari Panda

Designation: Principal

Address: Bhatter College, Dantan (Autonomous), Paschim Medinipur, West Bengal, 721426

(Office Seal)

Ref. No.BC..... Date

Annexure-I

Proposed Total Budget with break-ups

A. Total Estimated Expenditure

Sl. No.	Items Required with Justification and Rate	Total Expenditure (A) (₹)
1.	Honorarium to Resource Persons / Expert	35,000/-
2.	Study Materials and Consumables Expenses	50,000/-
3.	Hall Rent, if any	8,000/-
4.	Publicity Materials	5,000/-
5.	Travel expenses	8,000/-
6.	T.A. to the external Resource Persons/ Experts	20,000/-
7.	Documentation Expenses including Audio-Visual	8,000/-
8.	Light Refreshments	50,000/-
9.	Auditors' fee	2,500/-
10.	Other expenses, if any (please specify)	10,000/-
	Grand Total Expenditure(₹):	196,500/-

Please mention:

B. Institution/ Organization Contribution*in ₹ 20,000.00

C. Contribution from any other sources (with name & Address) in ₹0.00

D. Grant expected from DSTBT (₹) = ₹176,500.00

13/12/25

Signature of Authorised Personnel with seal
Principal
Bhatter College, Dantan
(Autonomous)
Dantan, Paschim Medinipur

If C= 0

Undertaking: This organization/ institution is not receiving any kind of financial assistance from any other sources

13/12/25

Signature of Authorised Personnel with seal
Principal
Bhatter College, Dantan
(Autonomous)
Dantan, Paschim Medinipur

*At least 10% of the total budget contribution from the Institute/ Organization is desirable

Ref. No.BC.....

Date

Annexure-II

Bank details of the Applicant Organisation

Name of the Organization	Bhatter College, Dantan (Autonomous)
Bank Account number & Name of the Account holder/Organization	11646230020/ Bhatter College, Dantan
Type of Account (Savings or Current A/c)	Current A/c
Name of the Bank	State Bank of India (SBI)
Name of the Branch with Branch address	SBI DANTAN Branch
IFSC of the Branch	SBIN0004782
Mobile Number of the Programme Coordinator/ Head of the Organization	8250808742 (PC)/9800045250 (Head)
PAN/TAN of the Account holder/Organization	AAABB0891N

13/12/25

Signature of Authorised Personnel with seal

Principal
Bhatter College, Dantan
(Autonomous)
Dantan, Paschim Medinipur

Separate sheet – I

AIMS AND OBJECTIVES OF THE WORKSHOP

Title: **Engaging Workshop on New Frontiers of IT and Pure Science for School & College Students**

The primary aim of this workshop is to popularize science and technology among school students and teachers from the remote rural regions surrounding Bhatter College, Dantan—an area with a substantial SC, ST, and economically backward population. Owing to limited exposure, many students in this locality remain unaware of modern scientific advancements, technological opportunities, and career pathways. This workshop seeks to address that gap by introducing participants to emerging developments in Information Technology and Pure Science through interactive sessions, demonstrations, and hands-on scientific engagement.

The programme also intends to integrate scientific understanding with local socio-environmental challenges such as the harmful effects of brick-kiln smoke, the safe use and purification needs of Subarnarekha river water, and the rising issue of mobile phone and social media dependence among youth. By connecting scientific principles to these issues, the workshop aims to empower students and teachers with the knowledge needed to promote community well-being and sustainable development.

Specific Aims

1. To promote scientific awareness among students and teachers on emerging issues in Information Technology and Pure Science.
2. To bridge the gap between theoretical knowledge and practical application through hands-on activities using low-cost, locally adaptable laboratory setups.
3. To nurture early interest in scientific research, innovation, and creativity among school-level learners.
4. To equip science teachers with modern scientific tools, technologies, and effective teaching methodologies.
5. To familiarize participants with advanced scientific instruments, digital tools, and technologies relevant to 21st-century education and careers.

Objectives of the Workshop

1. Promote Knowledge on Drone Technology, Robotics & Their Application in Agriculture

- Introduce students to the fundamentals of drone technology, sensors, IoT, and basic robotics.
- Demonstrate real-world applications of drones in agriculture—crop monitoring, pesticide spraying, soil analysis, and precision farming.
- Inspire students to explore innovation and startup possibilities in agri-tech.

2. Introduce Sustainable Science through Water Purification Research

- Explain the process of Subarnarekha river water sampling, laboratory testing, and purification methods.

- Demonstrate low-cost water quality testing techniques (pH, turbidity, dissolved oxygen, etc.) suitable for school laboratories.
- Increase awareness of local environmental concerns and scientific strategies to address them.

3. Hands-on Experiments in a Low-Cost Laboratory Setup

- Provide students with accessible and low-cost experimental models demonstrating real-life applications of textbook science.
- Encourage the use of mobile phones, digital apps, and IT tools for measurement, data collection, and analysis.
- Help students connect theoretical knowledge with practical experiments in physics, chemistry, biology, and environmental science.

4. Encourage Idea, Creativity & Innovation in Pure Science

- Motivate participants to think conceptually and apply scientific principles beyond rote learning.
- Conduct guided activities where students design simple models, experiments, or innovative solutions.
- Build a foundation for scientific inquiry, problem-solving, innovation, and scientific entrepreneurship.

5. Foster a Scientific Culture in the Community

- Encourage students to approach everyday problems with a logical, rational, and inquiry-driven mindset.
- Promote the broader goals of the Science Popularisation Programme of DSTBT by nurturing a culture of scientific thinking.
- Prepare students to become future contributors to scientific research, technological development, and sustainable societal progress.

Separate sheet – II

3-DAY PROGRAMME SCHEDULE

Engaging Workshop on New Frontiers of IT and Pure Science for School & College Students

🗓 DAY 1 – INAUGURATION, INTRODUCTION & FOUNDATIONAL SCIENCE

Session-I

10:00 AM – 10:30 AM

Inauguration & Welcome Address

- Introduction to the workshop objectives
- Address by Principal / Coordinator / Guest

10:30 AM – 11:00 AM

Orientation Session:

"Popularizing Science in Rural Communities through the School and College Students: Vision & Importance"

Session-II

PURE SCIENCE, INNOVATION & STUDENT DEMONSTRATION

11:00 AM – 11:30 AM — Lecture (Session-I)

Topic: Idea, Creativity & Innovation in Pure Science

- How scientific creativity works
- Creating prototypes from daily-life materials

Session-III

11:30 AM – 01:30 PM — Hands-on Session-I (Innovation & Experimental Workshop)

Students rotate in groups to conduct:

- Physics low-cost experiments
- Chemistry and environmental testing
- Robotics–coding mini tasks

01:30 PM – 02:15 PM — Lunch Break

02:15 PM – 04:30 PM — Hands-on Session-II (Innovation & Experimental Workshop)

04:30 PM – 05:00 PM

Reflection & Day-End Discussion

🗓 DAY 2 – EXPERIMENTS, SUSTAINABLE SCIENCE & ASTRONOMY

10:00 AM – 11:00 AM — Lecture (Session II)

Topic: Soil/air/water pollution Detection through in our School/ Collage laboratory

- Soil/air/water quality indicators
- Tools for environmental data collection

11:00 AM – 01:00 PM — Hands-on Session III

- Water Purification & Environmental Testing Lab
- Subarnarekha river water sample testing
- pH, turbidity, DO, conductivity tests
- Low-cost filtration and purification setup
- Data collection & recording

01:00 PM – 01:45 PM — Lunch Break

01:45 PM – 02:15 PM — Lecture (Session III)

Topic: Text book reading and understanding by Mobile and IT in Class room

02:15 PM – 04:00 PM — Hands-on Session IV (Telescope-Making Workshop & Astronomy Basics)

- Understanding lenses & optics
- Making a low-cost telescope (DIY model)
- Telescope final assembly

04:00 PM – 05:00 PM

Demonstration by the Students & Group Discussion

🗓 DAY 3 – EXPERIMENTS, SUSTAINABLE SCIENCE & TECHNOLOGY

10:00 AM – 10:30 AM - Lecture (Session IV)
Topic: Experiments and Class room

10:30 AM – 11:30 AM — Hands-on Session-V

Topic: Drone Technology, Robotics & Applications in Agriculture

- Basics of drones and sensors
- Robotics in modern farming
- Demonstration of drone components

11:30 AM – 01:00 PM — Hands-on Session 1 (Drone & Robotics Practical Training)

- Assembling basic drone parts
- Operating mini-robotic devices
- Testing simple sensor modules (IR, ultrasonic)

01:00 PM – 01:45 PM — Lunch Break

01:45 PM – 04:00 PM — Hands-on Session 2

- Drone Flight Demonstration & Field Activity
- Outdoor basic training (safe mode)
- Simulated crop-monitoring exercise
- Data recording through mobile apps

04:00 PM – 05:00 PM — Final Demonstration & Valediction Ceremony

- Student groups present their findings
- Feedback from Experts
- Distribution of certificates
- Vote of thanks