

# OUTREACH PROGRAM FOR SCHOOL STUDENTS

Organized by  
Department of Botany  
In collaboration with  
IQAC, Dr. A. P. J. Abdul Kalam Government  
College

4th August, 2022

*Students of Aswininagar TN Mandal  
Institution visited our department*



**New Town, West Bengal, India**

Dr. A.p.J. Abdul Kalam Government College, Dr. A.p.J. Abdul Kalam Government College,  
BA Block(Newtown), Action Area I, Newtown, Kolkata, West Bengal 700156, India  
Lat 22.584401°

Long 88.458626°

04/08/22 03:58 PM



GPS Map Camera



## **Outreach Program for School Students**

Organized by

**Department of Botany**

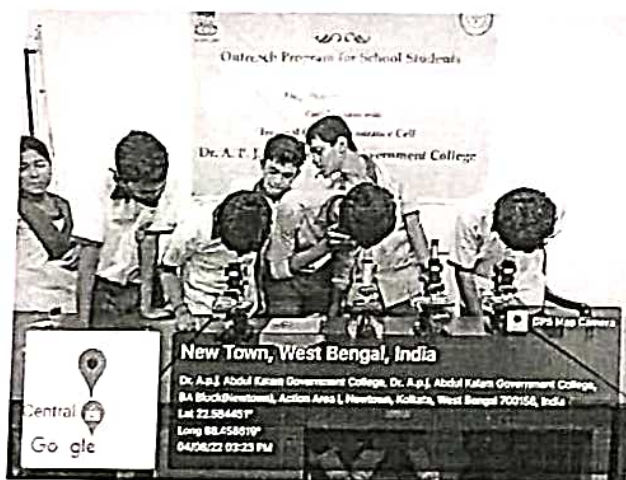
In collaboration with

**Internal Quality Assurance Cell**

**Dr. A. P. J. Abdul Kalam Government College**

Outreach is an activity of providing services to any stakeholders who might not otherwise have access to those services. It is an activity where institutions reach out to share what-so-ever research or innovations in the teaching done at an institute. The Department of Botany, in collaboration with IQAC, has organized such an outreach program for school students to give them a glimpse of different plant science experiments and encourage them to take up higher studies in the future. The program was organized on 4<sup>th</sup> August 2022. Fifty students of class X from the Aswininagar J. N. Mandal Institution have actively participated in the program. The headmaster and three assistant teachers of the school accompanied the students. The program consisted of an introductory session where our Principal addressed the students with his motivating words. There were three technical sessions. In the first session, students learned about different physiological phenomena of plants, like photosynthesis, transpiration, respiration, and ascent of sap. The session was conducted by Dr. Mala Neogy and Debasis Mondal. The second session involved a visit to the departmental instrument room where our Semester VI students demonstrated the different instruments used in a typical plant science laboratory. The third session focused on cytology where the students learned about the different stages of cell division and the techniques used to visualize cell division from onion root tips. This session was conducted by Dr. Saswati Bhattacharya and Dr. Riddhi Datta. Each technical session consisted of a brief lecture on each topic followed by a demonstration and hands-on training on physiological and cytological experiments. Modern teaching-learning methods, like PowerPoint presentations, cartoon diagrams, and animations were used to help conceptualize the topics. The program was concluded by a question answer and feedback session followed by certificate distribution. The students were provided with a small kit with hand-outs for each session and small refreshment was arranged for all the participants. The program presented a visualization of different biological phenomena that the students read in black and white in their usual classes.





### **Organizing committee**

#### **President**

Dr. Debasish Banerjee, Principal

#### **Chairperson**

Dr. Mala Neogy, Co-ordinator, IQAC

#### **Joint organizing secretaries**

Dr. Saswati Bhattacharya

Dr. Riddhi Datta

#### **Treasurer**

Debasis Mondal

### **Program schedule**

09:30 AM – 10:30 AM:	Registration and welcome address
10:30 AM – 12:30 PM:	Session I on Plant physiology techniques
12:30 PM – 01:00 PM:	Session II on Visit to instrument room
01:00 PM – 01:30 PM:	Address by the Principal
01:30 PM – 02:30 PM:	Lunch break
02:30 PM – 04:30 PM:	Session III on Cytology experiments
04:30 PM – 05:00 PM:	Question/Answer and Feedback session



Dr. A.P.J. Abdul Kalam Government College

Department of Botany

Plot BA-I, Action Area I, New Town, Kolkata 700156

Email: botany.ntgc@gmail.com

Memo No.....

Date.....

To  
The Principal,  
Dr. A.P.J Abdul Kalam Government College,  
New Town.

Permitted  
23.3.22  
Principal  
Dr. A.P.J. Abdul Kalam Govt. College  
New Town, Rajarhat  
Kolkata - 700156

Sub: Permission for conducting outreach program

Sir,

This is for your kind information that we are interested to organize an outreach program from our department for popularization of science among school students. We will be highly obliged if you kindly grant the permission for organizing the same.

Thanking you

Yours faithfully

(Dr. Mala Neogy)

Associate Professor and Head

Department of Botany

Dr. A.P.J Abdul Kalam Government College

Associate Professor, WBES  
Head, Department of Botany  
Dr. A.P.J. Abdul Kalam Govt. College  
New Town, Rajarhat



## Outreach program for School Students

*Organized by*

Department of Botany, Dr. A.P.J. Abdul Kalam Government College

*In collaboration with*

IQAC, Dr. A.P.J. Abdul Kalam Government College

Date: 4<sup>th</sup> August 2022

### Tentative expenditure

Items	Rate	Amount
Refreshment	50/- x 73	3650/-
Kit	35/- x 45	1575/-
Flex, etc.		800/-
Certificate	12/- x 45	540/-
Total		6565/-



GOVT. OF WEST BENGAL

OFFICE OF THE PRINCIPAL  
DR. A. P. J. ABDUL KALAM  
GOVT. COLLEGE  
PLOT. BA-1, AA-1, NEW TOWN RAJARHAT,  
24 Pgs. (NORTH), KOLKATA - 700 156  
URL : <http://newtowngovtcollege.in>  
E-mail : [newtowncollege@gmail.com](mailto:newtowncollege@gmail.com)

ড: এ পি জে আব্দুল কালাম

গভ: কলেজ

প্লট. বিএ-১, এএ-১, নিউটাউন, রাজারহাট,  
২৪ পরগনা (উত্তর), কলকাতা - ৭০০ ১৫৬  
ইউ আর এল : <http://newtowngovtcollege.in>  
ই-মেল : [newtowncollege@gmail.com](mailto:newtowncollege@gmail.com)

Memo No. 193/APJGC/22/07

Date 18-07-2022

To  
The Headmaster,  
Aswininagar J. N. Mandal Institution,  
Baguihati,  
Kolkata.


**Sub: Invitation for outreach program organized by Department of Botany in collaboration with IQAC, Dr. A.P.J. Abdul Kalam Government College**

Sir,

I would like to share with you that the Department of Botany of our College in collaboration with IQAC, is going to organize an outreach program on 04.08.2022. We will be glad if you send your students (maximum forty) to our college on that date. The aforesaid department will arrange for some experiments of Plant Science and hands on training programme. The participants will be awarded with certificates after successful completion of the event. No communication expense will be provided by the college.

Your co-operation is highly solicited.

Yours sincerely

  
Principal 18-07-2022

Dr. A.P.J. Abdul Kalam Government College



## Outreach program for School Students

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In collaboration with

Internal Quality Assurance Cell

Dr. A.P.J. Abdul Kalam Government College

### Attendance sheet

Participants from Aswininagar J. N. Mandal Institution

Sl. No.	Name (in block letters)	Class	Signature
1.	ANKITA MANDAL	X	Ankita Mandal
2.	RIMTI DEY	X	Rimti Dey
3.	SAGARIKA MONDAL	X	Sagarika Mondal
4.	MADHUMITA MAJUMDAR	X	Madhumita Majumdar
5.	SUSHMITA HALDER	X	Sushmita Halder
6.	SRISTI BALA	X	Sristi Bala
7.	DIPA ROY	X	Dipa Roy
8.	RIMPA MONDAL	X	Rimpa Mondal.
9.	SATHI DAS	X	Sathi Das
10.	MOUMITA HALDER	X	Mamita Halder
11.	MANISHA SINGH	X	Manisha Singh
12.	POLY BISWAS	X	Poly Biswas
13.	RIMJHIM RAHA	X	Rimjim Raha.
14.	JUI BALA	X	Jui Bala
15.	Swapna Halder	X	Swapna Halder
16.	SWEETY Pal	X	Sweet J Pal
17.	Abhimunya Mondal	X	Abhimunya Mondal



✓ 18.	<del>ARPITA</del> ARPITA BARIK	X	Arpita Barik
✓ 19.	SUPRIYA TALUKDER	X	Supriya Talukder
✓ 20.	SUSHMITA MONDAL	X	Sushmita Mondal
✓ 21.	RIMPA RAJBANSHI	X	Rimpa Rajbanshi
✓ 22.	DEBASISH MAJUMDAR	X	Debasish Majumdar
23.	ANUP DAS	X	Anup Das
24.	AVIJIT MONDAL	X	Avisit Mondal
25.	ARUP SARKAR	X	Arup Sarkan
26.	SUDEEP MONDAL	X	Sudeep Mondal
27.	BAPAN PATRA	X	Bapan Patra
28.	BIJOY MISTRY	X	Bijoy Mistry
29.	RAHUL MONDAL	X	Rahul Mondal
30.	KRISH CHATTERJEE	X	Krish Chatterjee
31.	SANIT MAHALDER-	X	Sanat Mahalder
32.	DEBANGSHU MONDAL	X	Debangshu Mondal
33.	SUPRIYA MONDAL	X	Supriya Mondal
34.	SUPRIYA DAS	X	Supriya Das
35.	Mondira Biswas MONDIRA BISWAS	X	Mondira Biswas
36.	MD ABDUR RAHIM GAZI	X-A	Md Abdur Rahim Gazi
37.	RUDRANIL BHATTACHARYA	X-A	Rudranil Bhattacharya
38.	TUFAN MONDAL	X	Tufan Mondal
39.	CHANDAN GAYEN	X-A	Chandan Gayen
40.	SANDIP SARKAR	X	Sandip Sarkar
41.	SANTANU MISTRY	X	Santanu Mistry
42.	SAGAR SANFUI	X	Sagar Sanfui
43.	SAGOR BISWAS	X	Sagor Biswas
44.	PRITISA BALI	X-A	Pritisa Bali
* 45.	RUPSHA MAJUMDER	X-A	Rupsa Majumder

SL. No.	NAME	Class	Signature
* 46.	SAMPA SARKAR	<u>X</u>	Sampa Sarkar
* 47.	NANDITA BISWAS	<u>X</u>	Nandita Biswas
* 48.	BITHIKA PAL	<u>X</u>	Bithika Pal
* 49.	NIBIDITA BISWAS	<u>X</u>	Nibidita Biswas
* 50.	PAYEL HALDER	<u>X</u>	Payel Halder





### Outreach program for School Students

*Continued on 34*

Department of Botany

*Is well known with*

Internal Quality Assurance Cell

Dr. A.P.J. Abdul Kalam Government College

Date: 04/08/2022

## Feedback from participants

Did you finish the packages?

Yes ☒ No ☐

আমি নিজেই এটা গল্প লিখেছি।

सं. सं. सं. सं.

Was the program interesting to you?

Figure 1

প্রোগ্রামটি কি অ্যাপনার জন্যে অপ্রকটীয় ছিল।

आदि ☐ नदी ☐

Would you like to participate in such programs in future?

Page  of

অতীতকাল থেকে কলকাতায় এসে বসবাস করছেন।

☒ ☐

Please rate the session on a scale of 1-5 [1 (unsatisfactory), 2 (average), 3 (good), 4 (very good), 5 (excellent)]

অনুগ্রহ করে ১.১ এর স্কোরে সেশনগুলিকে যেটি দিন। (অসন্তোষজনক, ২ (পড়), ৩ (ভাল), ৪ (খুব ভাল), ৫ (চমৎকার))

Session 1 Plant physiology experiments (সেশন : উদ্ভিদ শাখাবৃত্তীয় পরীক্ষা 4

Session II: Visual to instrumental racism. সেশন II: দৃষ্টি ক্রমক পরিদর্শন। 4

**Sesshom III Cytology experiments** (ଅଷ୍ଟମ III ମାସିକାୟାମି) ଏବଂ

Remarks/suggestions if any

संस्कृत-पत्रिका-संस्था, पृथ्वी, भारत

ଆମେ ଚିନ୍ତାକ୍ଷମ ସମସ୍ତଙ୍କୁ ଏହି କଥାରେ ସଚ୍ଚିତ କରାଉଛୁ । ଆମେ ଏହି କଥାରେ ସଚ୍ଚିତ କରାଉଛୁ । ଆମେ ଏହି କଥାରେ ସଚ୍ଚିତ କରାଉଛୁ ।

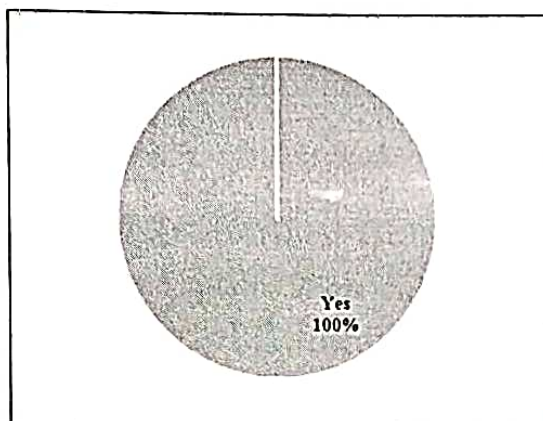
Name: Swarna Holden

# Outreach Program for School Students

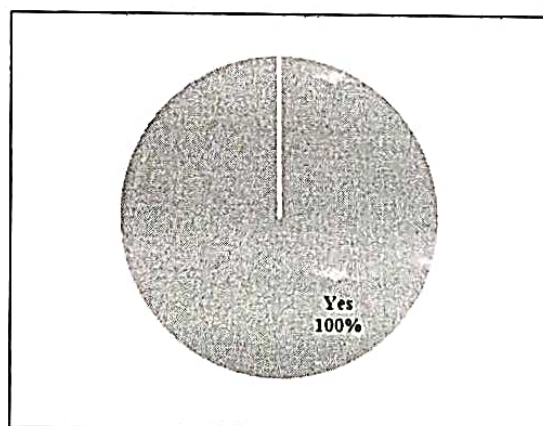
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## Feedback Analysis

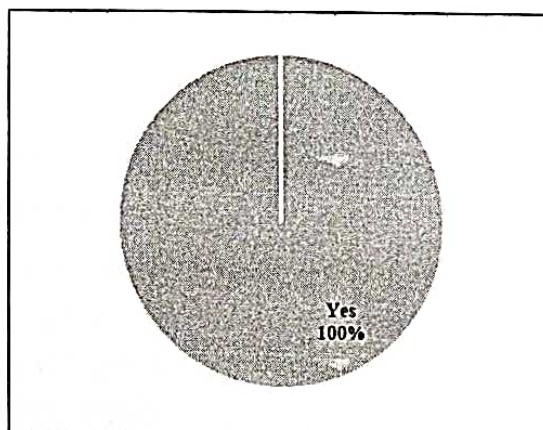
1. Did you enjoy the program?



2. Was the program interesting to you?



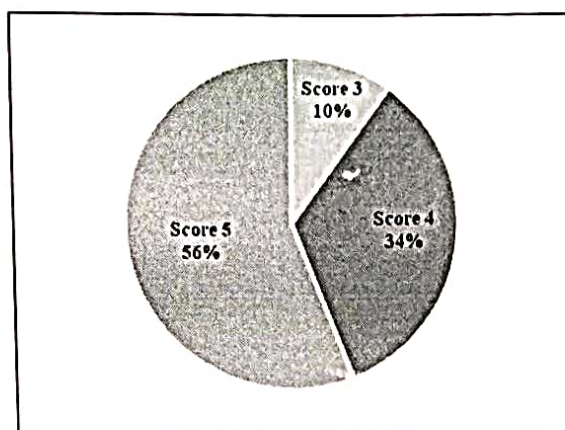
3. Would you like to participate in such programs in future?



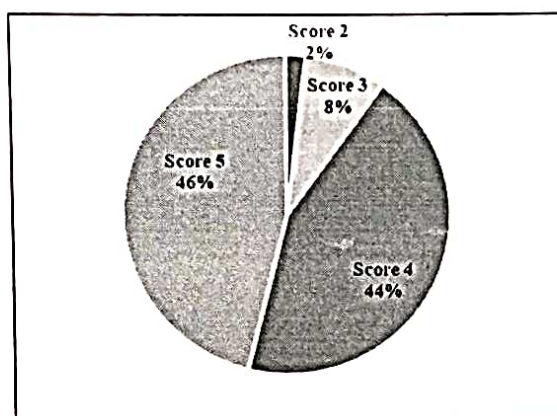


Ratings were taken on a scale of 1-5 [1: unsatisfactory, 2: average, 3: good, 4: very good, 5: excellent]

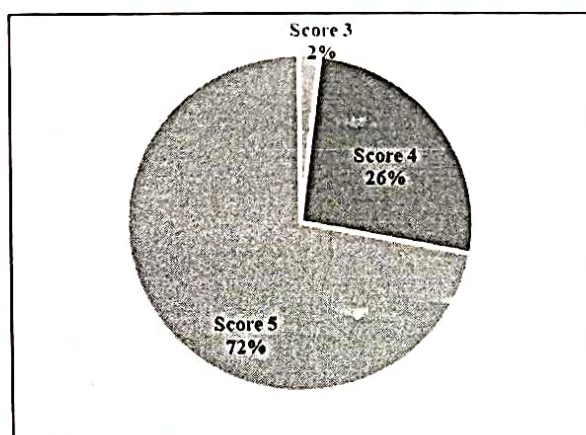
#### Session I: Plant physiology experiments



#### Session II: Visit to instrument room

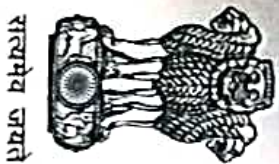


#### Session III: Cytology experiments



Resolutions taken on the basis of participants' feedback:

- All the participants enjoyed the program and found the sessions interesting.
- 56% participants found that the session on plant physiology experiments (Session I) excellent, 46% found that the session on instrument room visit (Session II) excellent, while 72 % found the session on cytology experiments excellent.



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Dr. A. P. J. Abdul Kalam Government College

New Town, Kolkata



### Certificate of Participation

This is to certify that Sample, a student of

*Aswini Nagar J. N. Mandal Institution has attended and actively participated in the Outreach Program*

*for School Students held on 04.08.2022.*

Principal

IQAC Co-ordinator

Joint Organizing Secretaries