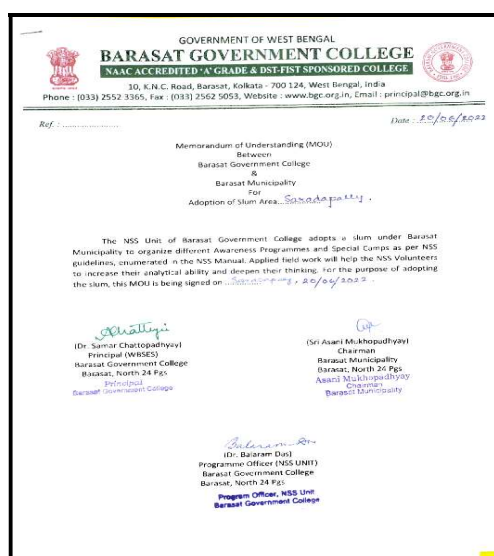


BEST PRACTICE 1

TITLE: Adoption of Slum 'Saradapally, located in Ward No.29, Barasat, Kolkata 700124, by NSS unit of the College.

OBJECTIVE: Saradapally is a congested urban slum area, where 1500 people live within a small space of 0.04sq.km. The inhabitants are socially and economically deprived with extremely poor rates of literacy, hygiene and health awareness. The objective of the adoption project was to raise awareness on health and literacy issues.

CONTEXT: A MOU was signed between the NSS Unit of Barasat Govt. College and Barasat Municipality for adoption of Slum area, Saradapally, Barasat situated at a distance of 4 kms from the college premises, on 20th June 2022. Following the adoption the slum has been visited frequently by the NSS volunteers for different awareness programmes. Between the period July 2022 to June 2023, almost 49 student volunteers out of the total 100 member NSS unit of the college has visited the slum for seven various outreach programmes with the accompaniment of the Programme Officer, teacher members and resource persons from different fields.



PRACTICE:

1. On 9th September, 2022 on the occasion of International Literacy Day, a rally was organized in the slum area to raise awareness on the importance of the three R's (Reading, Writing and Arithmetic) in today's world. Along with this, an interactive workshop was conducted by Resource person Paromita Bhattacharyya, SACT, Barasat Govt. College with the slum children for learning through art, music and stories.



2. On 19th December, 2022 NSS conducted an anti-addiction drive by the help of resource person Dr. Olivia Ganguly, Assistant Professor of Human Development & Psychological Counsellor, RKVM Sarada Ma Girls' College. Dr. Ganguly talked about the causes and forms of addiction, its spread across gender and age, impact of addiction and finally the measures to handle this addiction problem.



3. Smt. Soma Basu Dutta, Counsellor, ICTC, Barasat Govt. Medical College & Hospital and Smt. Mousumi Chatterjee, Folk Singer & her Troup acted as resource persons to conduct AIDS awareness program among the slum dwellers through discussions, talks and cultural performances.



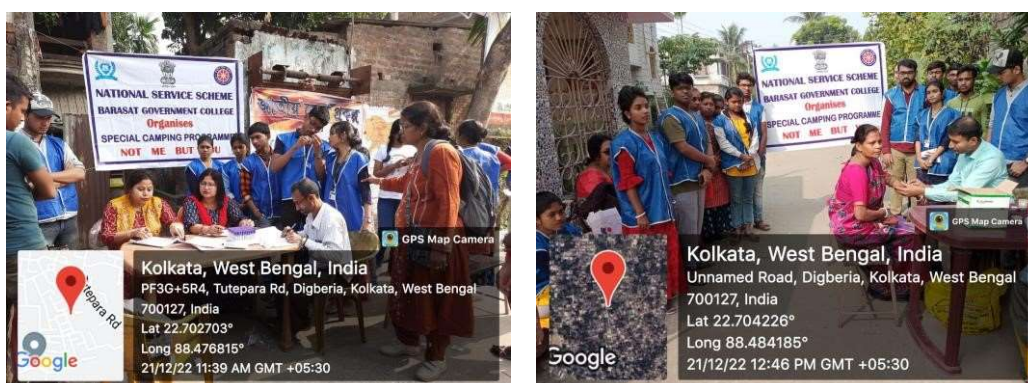
4. On 20th December, 2022 Sri Somnath Das (Trained from Ministry of Ayush, Govt. of India, Faculty of Art of Living) visited the slum, to teach Yogasana for physical and mental health to the children of the area to improve their concentration powers and for general well-being.



5. Smt. Pratyasha Agrawal, Consultant Nutritionist, Department of Clinical Nutrition & Dietetics, held a 'Nutrition Programme' on the same day to make the residents of Saradapally aware of healthy food habits sources of cheap nutritious food, and importance of nutrition during pregnancy.



- On 21st December Smt. Madhumita Samanta, Counsellor, Thalassaemia Control Unit, Dept. of Haematology, Calcutta School of Tropical Medicine, Govt. of West Bengal, with her team conducted thalassaemia test on 83 local people of the slum. Many residents were found to be positive and advised to contact the local health centre for further follow up.



- A sanitization drive was undertaken on 21st December, 2022 in and around the slum area by spreading bleaching powder and phenyl to eradicate vector borne diseases.



EVIDENCE OF SUCCESS: The different outreach programmes conducted by the NSS units in Saradapally slum had two distinct outcomes.

- Firstly it helped to build awareness among the residents of the slum area on different social and health issues. The anti-drug programme led to the admission of two local youths to the government run drug rehabilitation unit in Barasat. Thalassaemia screening helped families identify their diseases and take precautionary steps. Other programmes on literacy, nutrition and sanitization was also greeted enthusiastically by the local residents.
- Secondly it helped the NSS volunteers of the college to build resources of organizing capabilities, social awareness, community responsibility etc.

PROBLEMS ENCOUNTERED:

Saradapally is situated at a distance of 4 kms. from the college. Considerable time and money is required for the to and fro travel to the slum area by NSS volunteers. The heavy academic schedule of the university and the lack of sufficient funds have restricted the NSS unit from taking up more meaningful programmes.

BEST PRACTICE 2

TITLE: Opening of Science club “SCIENTIA” for the students of the science departments (Physics, Mathematics, Chemistry, Botany, Zoology, Geography and Economics)

OBJECTIVE: To create a common platform for exchange of scientific knowledge, innovative thinking and promotion of scientific temperament for all science students.

CONTEXT: Barasat Govt. College houses 7 science departments, 3 of which have both UG and PG sections. Since there are no official body to coordinate the interdisciplinary academic and scientific activities of these departments or act as a common ground for exchange of scientific knowledge, know-how and academic information, IQAC of Barasat Government College suggests the opening of a Science Club. The Science Club can act as a conduit for such sharing of expertise and information and in the process build an organization of cooperative innovativeness.

PRACTICE:

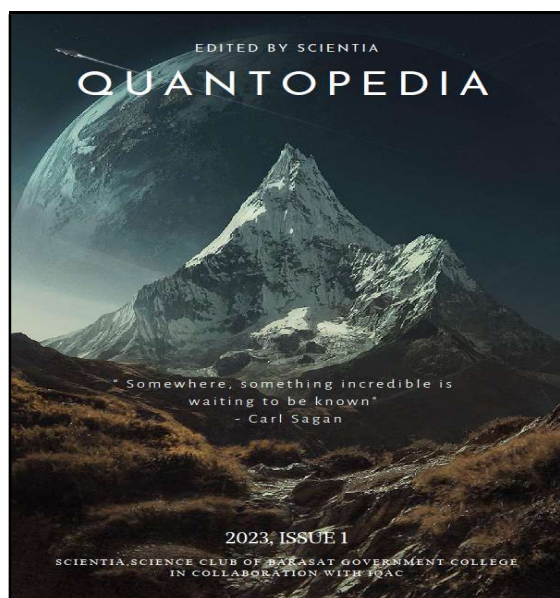
1. The science club has been formed by formal notification on 13th April, 2023. It comprises of students of the UG and PG departments of Physics, Botany, Zoology, Chemistry, Mathematics, Geography and Economics with voluntary participation. At present it has a student membership of 121 with 13 teachers of different science departments acting as mentors.

2. The club held its first meeting with all student and teacher members on 16th May 2023, where the following future activities of the science club were decided on for the coming months of May and June:

- Publication of e-magazine/ printed magazine on “revolutionary discovery/ invention in their field in the 20th/21st century” by students of each of the 7 departments.
- One short video on an eminent personality of the 20th century in their respective field which is to be uploaded on YouTube
- An editorial board to be set up consisting of student members
- Each department is to select a student coordinator to facilitate the communication with science club via a WhatsApp group.

EVIDENCE OF SUCCESS:

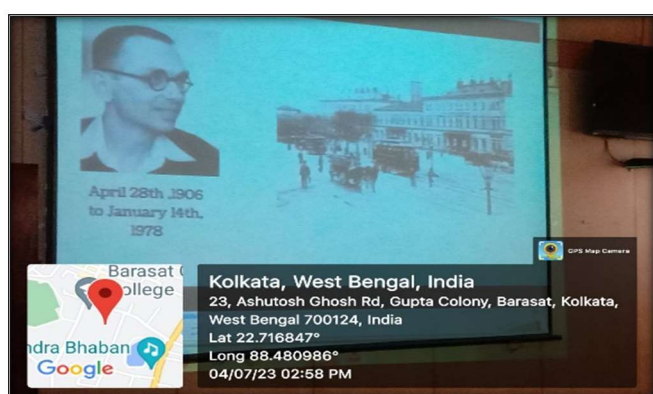
The science club members have been successful in publishing a magazine and producing seven popular short videos on eminent scientific personalities in the field of botany, chemistry, economics, geography, mathematics physics and zoology. A video show was organised in the college on 4th July 2023 on the occasion of the inauguration of the 1st issue of the club’s magazine ‘QUANTOPEDIA’.



1	APPLICATION OF CRISPR/CAS9 TECHNOLOGY IN AGRICULTURE. BY DEPARTMENT OF BOTANY
7	NANO-CHEMISTRY, A NEW ERA OF SCIENCE. BY DEPARTMENT OF CHEMISTRY
26	THE APPLICATION OF RANDOMISED CONTROLLED TRIALS ON DEVELOPMENT ECONOMICS RESEARCH AND POLICY MAKING. BY DEPARTMENT OF ECONOMICS
36	QUANTITATIVE REVOLUTION AND ITS ADAPTATION IN GEOGRAPHY. BY DEPARTMENT OF GEOGRAPHY
50	LEGACY OF A PROBLEM WHICH HAD REMAINED UNSOLVED FOR OVER 350 YEARS - FERMAT'S LAST THEOREM BY DEPARTMENT OF MATHEMATICS
59	MAGLEV : WORLD'S FASTEST TRAIN BY DEPARTMENT OF PHYSICS (PG)
63	UNRAVELING THE MYSTERIES OF BLACK HOLES - A JOURNEY INTO THE COSMIC ABYSS. BY DEPARTMENT OF PHYSICS (UG)
67	GROWING INTO MODERN MAN, HAVE WE COMPLETELY DISOWNED OUR PAST ? BY DEPARTMENT OF ZOOLOGY

"The important thing is not to stop questioning."
- Albert Einstein

Discipline	Video Name	You tube link
BOTANY	M.S. Swaminathan: The father of green revolution of India	https://youtube.com/watch?v=xx-OUHC8CdQ&si=ZKDHAVOD8f2f8H9C
CHEMISTRY	Fritz Haber : Genius or Genocider	https://youtube.com/watch?v=CSL-MC6lUUg&feature=share9
ECCONOMICS	Milton Friedman : Economic Genius	https://youtube.com/watch?v=j5ywnzwR39w&feature=share9
GEOGRAPHY	S.P. Chatterjee: Father of Indian Geography	https://youtu.be/1UcwA7IUu6c
MATHEMATICS	Kurt Gödel: Unraveling the mind	https://youtu.be/CvY63jUPQCg?si=P3RrCcaU3yjHK5Uc
PHYSICS	Homi J. Bhabha: Indian Nuclear Physicist	https://youtube.com/watch?v=Oc9OrnQZqPM&feature=share9
ZOOLOGY	Gopal Chandra Bhattacharya : 1 st entomologist of India	https://youtu.be/vF_I7iLKDsg



PROBLEMS ENCOUNTERED:

- The erratic examination schedule of the mother university makes it difficult to plan and organize future programs.
- The lack of quality infrastructure (laptop, overhead projector, sound system and auditorium) dedicated for science club work.
- Lack of funds and tight academic schedule prevents us from organizing events involving eminent speakers from outside the college premises.