



Programmes under Memorandum of Understanding
Dinabandhu Andrews College and Vivekananda College



ACTION TAKEN REPORT

SESSION 2021 - 22

Sl. No.	Title of the Programme	Date or Period of the Event or Activity	Convenor or Teachers Involved in the Event	No. of Participants	Beneficiary
1	Faculty Exchange Programme in Department of Physics	18/11/2021	Dr. Nirmalya Pahari	18 (Semester 01)	Students & Teachers of both the colleges
2	Faculty Exchange Programme in Department of Commerce	20/11/2021	Akash Balmiki	46 (Semester 01)	Students & Teachers of both the colleges
3	Faculty Exchange Programme in Department of Bengali	18/11/2021	Dr. Dola Debnath	48 (Semester 03)	Students & Teachers of both the colleges
4	Faculty Exchange Programme in Department of Commerce	22/11/2021	Dr. Arpan Tamang	83 (Semester 03)	Students & Teachers of both the colleges

Principal

Dinabandhu Andrews College
Dinabandhu Andrews College
Baishnabghata, P.O. - Garia
Dist. 24 Parganas (S), Kolkata - 700 084

Teacher - in - Charge
Vivekananda College

Teacher-in-Charge
VIVEKANANDA COLLEGE
Thakurpukur, Kol-53



DINABANDHU ANDREWS COLLEGE

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Estd. 1956

Ref. No.

Date ...18.11.21.....

TO WHOM IT MAY CONCERN

This is to certify that Dr. Nirmalya Pahari, Associate Professor of Physics, Vivekananda College, Thakurpukur, Kolkata-700063, has delivered a special lecture for our students as an initiative of faculty exchange programme. His knowledge sharing to our student community is highly appreciated.

(Dr. Somnath Mukhopadhyay)

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Garia, Kolkata-700 084



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Date ...20.11.21.....

TO WHOM IT MAY CONCERN

This is to certify that Prof. Akash Balmiki, Assistant Professor of Commerce, Vivekananda College, Thakurpukur, Kolkata-700063, has delivered a special lecture for our students as an initiative of faculty exchange programme. His knowledge sharing to our student community is highly appreciated.

(Dr. Somnath Mukhopadhyay)
Principal

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VIVEKANANDA COLLEGE

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Ref. No.....

Date..45/01/23.....

TO WHOM IT MAY CONCERN

This is to certify that Dr. Joy Sarkar, Associate Professor of Botany, Dinabandhu Andrews College, Garia, Kolkata-700084, has delivered a special lecture for our students as an initiative of faculty exchange programme. His knowledge sharing to our student community is highly appreciated.

T. Poddar
05/01/23

(Dr. Tapan Kumar Poddar)
Principal

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VIVEKANANDA COLLEGE

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Ref. No.....

Date..18.11.21.....

TO WHOM IT MAY CONCERN

This is to certify that Dr. Dola Debnath, Associate Professor of Bengali, Dinabandhu Andrews College, Garia, Kolkata-700084, has delivered a special lecture for our students as an initiative of faculty exchange programme. Her knowledge sharing to our student community is highly appreciated.


18.11.21

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Ref. No.....

Date... 22/11/21

TO WHOM IT MAY CONCERN

This is to certify that Dr. Arpan Tamang, Assistant Professor of Commerce, Dinabandhu Andrews College, Garia, Kolkata-700084, has delivered a special lecture for our students as an initiative of faculty exchange programme. His knowledge sharing to our student community is highly appreciated.

T. Poddar 22/11/21

(Dr. Tapan Kumar Poddar)

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VIVEKANANDA COLLEGE

(GOVT. SPONSORED) (NAAC ACCREDITED GRADE 'A')

Ref. No.....

Date..... 7/11/22

TO WHOM IT MAY CONCERN

This is to certify that Dr. Joy Sarkar, Associate Professor of Botany, Dinabandhu Andrews College, Garia, Kolkata-700084, has delivered a special lecture for our students as an initiative of faculty exchange programme. His knowledge sharing to our student community is highly appreciated.


7/11/22

(Dr. Tapan Kumar Poddar)
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Ref. No.....

Date...05/01/23.....

TO WHOM IT MAY CONCERN

This is to certify that Dr. Joy Sarkar, Associate Professor of Botany, Dinabandhu Andrews College, Garia, Kolkata-700084, has delivered a special lecture for our students as an initiative of faculty exchange programme. His knowledge sharing to our student community is highly appreciated.


(Dr. Tapan Kumar Poddar)
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Ref. No.

Date 04.11.22.....

TO WHOM IT MAY CONCERN

This is to certify that Dr. Babul Hossain, Assistant Professor of Bengali, Vivekananda College, Thakurpukur, Kolkata-700063, has delivered a special lecture for our students as an initiative of faculty exchange programme. His knowledge sharing to our student community is highly appreciated.

(Dr. Somnath Mukhopadhyay)

Principal

Principal
Dinabandhu Andrews College
Garia, Kolkata-700 084

Review

COVID-19: morphology and mechanism of the SARS-CoV-2, global outbreak, medication, vaccines and future of the virus

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1. Abstract

Severe Acute Respiratory Syndrome Coronavirus-2 (SARS-CoV-2) is a lethal virus that was detected back on 31st December 2019 in Wuhan, Hubei province in China, and since then this virus has been spreading across the globe causing a global outbreak and has left the world fighting against the virus. The disease caused by the SARS-CoV-2 was named COVID-19 and this was declared a pandemic disease by the World Health Organization on 11th March 2020. Several nations are trying to develop a vaccine that can save millions of lives. This review outlines the morphological features of the virus describing the outer and inner structures of the virus along with the entry mechanism of the virus into the host body and the infection process. Detailed reports of global outbreak along with preventive measures have also been included, with special emphasis on China, the United States of America, India, Italy, and South Korea. Broad-spectrum antiviral drugs being used at vari-

ous health care centres around the world, namely Remdesivir, Camostat & Nafamostat, Famotidine, Chloroquine & Hydroxychloroquine, Lopinavir/ritonavir, Ivermectin, and Tocilizumab & Sarilumab have also been included. World Health Organization guidelines on preventive measures and use of soaps, alcohol-based hand-rubs and wearing face masks have also been described. The vaccines that are in one of the phases of human trials, namely Oxford University's vaccine, the United States-based Moderna's vaccine, India's Covaxin and the Russian vaccine, have also been incorporated in the review article.

2. Introduction

The Coronavirus disease 19 (COVID-19), considered a highly transmittable disease was first reported during mid-January, 2020 in Wuhan, Hubei province in China. The SARS-CoV-2 is phylogenetically related to the previously known SARS-CoV virus. During the outbreak of the