



GOVERNMENT OF WEST BENGAL
OFFICE OF THE PRINCIPAL
Maulana Azad College



8, RAFI AHMED KIDWAI ROAD, KOLKATA 700013, INDIA
Phone: 033 2249-3737/2226-7814 e-mail: maulanaazadcollegekolkata@gmail.com

**Report on the activities under MOU for Academic Collaboration between
Maulana Azad College Kolkata and Calcutta Girls' College.**

➤ **Date of Signing the MOU:** 15.06.2023

➤ **Objective:**

Initiate an academic Collaboration between departments of Maulana Azad College and Calcutta Girls' College which would benefit the students and faculty members of both the institutions in their pursuit of academic excellence.

➤ **Target Participants:** Students and faculty members of both Institutions.

➤ **Venue:** Maulana Azad College and Calcutta Girls' College.

➤ **Expected Outcome:**

Students and faculty members of both Institutions will be benefited in terms of their academic pursuit in several areas by organizing joint Seminar/Workshop/Conference, Student exchange programme, Faculty exchange programme etc.

➤ **Recent Activity:** A Workshop on “**Ordinary & Partial Differential Equation**”.

The Department of Mathematics has organized a Workshop on “**Ordinary & Partial Differential Equation**” from 24.06.2023 to 28.06.2023 for the students of Mathematics honours. All the 53 students of Semester-2 & Semester-4 actively participated in this Workshop. The participants enriched by learning the techniques for solving the ODE & PDE using computer programming. In the feedback session the students requested for arranging such Workshop at least two in an academic session.

Principal
Maulana Azad College
Kolkata-13

To

June 19, 2023

The Principal

Maulana Azad College
8, Rafi Ahmed Kidwai Road,
Kolkata 700013.

Sub: Permission for a Workshop on "**Ordinary & Partial Differential Equation**".

Respected Sir,

The Department of Mathematics has decided in the meeting held on 15th June 2023 that a Workshop on "**Ordinary & Partial Differential Equation**" will organize from 24.06.2023 to 28.06.2023. The main objective of this Workshop is to motivate the students for several entrance examinations like JAM, TIFR, CMI, etc.

Dr. Debashis Biswas, Assistant Professor, Department of Mathematics, Calcutta Girls' College and Dr. Bimal Kumar Sett, Assistant Professor, Kanyashree College, Behala are agreed to deliver lectures on the above-mentioned Workshop.

We shall be very grateful if you would kindly give your permission to organize this Workshop.

With Regards


(Somnath Bandyopadhyay)

Head

Department of Mathematics



Maulana Azad College
Department of Mathematics

Workshop on “**Ordinary & Partial Differential Equation**”.

Date: **24th June, 2023**

Tentative programme schedule:

| | |
|--------------------------|--|
| 11:00 A.M. to 11.20 A.M. | Enrollment of Participants. |
| 11:20 A.M. to 11:25 A.M. | Inaugural lecture by Principal, Maulana Azad College |
| 11:25 A.M. to 11:30 A.M. | Speech by IQAC Coordinator, Maulana Azad College |
| 11:30 A.M. to 1:00 P.M. | Lecture-1 on Ordinary Differential Equation by Dr. Bimal Kumar Sett. |
| 1:00 P.M. to 1:15 P.M. | Break |
| 1:15 P.M. to 2:45 P.M. | Lecture-1 on Partial Differential Equation by Dr. Debashis Biswas. |
| 2:45 P.M. to 4:45 P.M. | Problem Solving on both topics |

Date: **26th June, 2023**

| | |
|-------------------------|--|
| 11:00 A.M. to 1:00 P.M. | Lecture-2 on Ordinary Differential Equation by Dr. Bimal Kumar Sett. |
| 1:00 P.M. to 1:15 P.M. | Break |
| 1:15 P.M. to 3:00 P.M. | Lecture-2 on Partial Differential Equation by Dr. Debashis Biswas. |
| 3:00 P.M. to 4:30 P.M. | Problem Solving on both topics. |

Date: **27th June, 2023**

| | |
|-------------------------|--|
| 11:00 A.M. to 1:00 P.M. | Lecture-3 on Ordinary Differential Equation by Dr. Bimal Kumar Sett. |
| 1:00 P.M. to 1:15 P.M. | Break |
| 1:15 P.M. to 3:00 P.M. | Lecture-3 on Partial Differential Equation by Dr. Debashis Biswas. |
| 3:00 P.M. to 4:30 P.M. | Solution of ODE and PDE using computer programming. |

Date: **28th June, 2023**

| | |
|--------------------------|--|
| 11:00 A.M. to 12:00 P.M. | Lecture-4 on Ordinary Differential Equation by Dr. Bimal Kumar Sett. |
| 12:00 P.M. to 1:00 P.M. | Lecture-4 on Partial Differential Equation by Dr. Debashis Biswas. |
| 1:00 P.M. to 1:30 P.M. | Break |
| 1:30 P.M. to 2:30 P.M. | MCQ Test on both topics. |
| 2.30 P.M to 3.00 P.M | Feedback from participants. |
| 3.00 P.M to 3.30 P.M | Valedictory Session and Certificate distribution. |


Principal
Maulana Azad College
Kolkata-13

Department of Mathematics
Attendance for the Workshop on "Ordinary Partial Differential Equation".

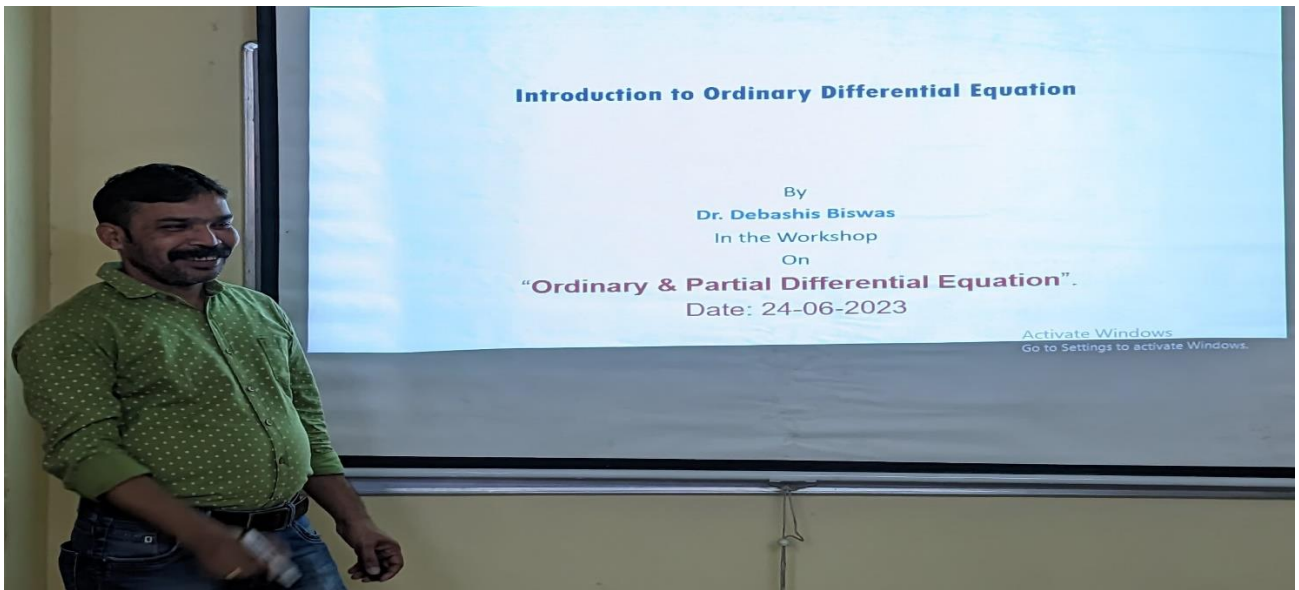
| Sl. No. | Name | Signature |
|---------|------------------------|------------------------|
| 1 | ABHIJEET SAHA | Abhijeet Saha |
| 2 | ANKANA SARKAR | Ankana Sarkar |
| 3 | ANKIT DAS | Ankit Das |
| 4 | ARCHIRSHMAN ROY | Archirshman Roy |
| 5 | BISWAJIT SHEE | Biswajit Shee |
| 6 | CHITRITA HAZRA | Chitrita Hazra |
| 7 | KISMAT KHANAL | Kismat Khanal |
| 8 | KRISHNENDU GHOSH | Krishnendu Ghosh. |
| 9 | MD SAFIR UDDIN | Md. Safiruddin. |
| 10 | MD ZEESHAN ALAM | Md. Zeeshan Alam |
| 11 | MD KAIF ALAM | Md. Kaif Alam. |
| 12 | MEGHA MONDAL | Megha Mondal. |
| 13 | NABEELA JAHAN | Nabeela Jahan |
| 14 | NUR AKTAR JAMIL | Nur Aktar Jamil |
| 15 | PALASH KARMAKAR | Palash Karமாகar |
| 16 | PREET CHOKHANI | Preet Chokhani |
| 17 | RANAJIT GHOSH | Ranajit Ghosh |
| 18 | RITAJA GHOSH | Ritaja Ghosh |
| 19 | SAMIRAN DAS | Samiran Das |
| 20 | SK IMROZ ALI | Sk Imroz Ali. |
| 21 | SOMYAJIT SAHA SAHA | Somyajit Saha |
| 22 | SRIJAN DAS | Srijan Das |
| 23 | SUBHRO CHAKRABORTY | Subhro Chakraborty. |
| 24 | SUVECCHA BHATTACHARYYA | Suveccha Bhattacharyya |
| 25 | TANISHA RAJAK | Tanisha Rajak |
| 26 | TITLI BISWAS | Titli Biswas |

Principal
Maulana Azad College
Kolkata-13

Department of Mathematics
Attendance for the Workshop on "Ordinary Partial Differential Equation".

| | | |
|----|------------------------|-------------------------|
| 27 | ANIRBAN KARAN | Anirban Karan |
| 28 | ARHANA DAS | Arhana Das |
| 29 | ARNAB CHHARI | Arnab Chhari |
| 30 | MASTURA PARVIN | Mastura Parvin |
| 31 | MASUDUZZAMAN GAZI | Masuduzzaman Gazi |
| 32 | MASUM YEHANA | Masum Yehana |
| 33 | NILAVO ROY | Nilavo Roy |
| 34 | NIRMALYA NASKAR | Absent |
| 35 | PROMIT BHATTACHARYA | Promit Bhattacharya |
| 36 | PUSKAR DAS | Puskar Das |
| 37 | RAKHI HAZRA | Rakhi Hazra |
| 38 | RANJAN PATRA | Ranjan Patra |
| 39 | SAGNIK BEJ | Sagnik Bej |
| 40 | SAMUDRA MITRA | Samudra Mitra |
| 41 | SAYAN DUTTA | Sayan Dutta |
| 42 | SENEPTA YEASMIN GOLDER | Seneptha Yeasmin Golder |
| 43 | SHINJAN MUKHERJEE | Shinjan Mukherjee |
| 44 | SHRESTHA SATPATHI | Shrestha Satpathi |
| 45 | SHREYA BASAK | Shreya Basak |
| 46 | SHUBHAJIT GHOSH | Shubhajit Ghosh |
| 47 | SK SAID HOSEN | Absent |
| 48 | SK SAIDUL ISLAM | Absent |
| 49 | SOHEL SK | Sohel SK |
| 50 | SOUMYADIP GHOSH | Soumyadip Ghosh |
| 51 | SUBHANJAN MAHATA | Subhanjan Mahata |
| 52 | SUJAY BANERJEE | Sujay Banerjee |
| 53 | SUMIT MANDAL | Sumit Mandal |
| 54 | SUNEETH DEBNATH | Suneeth Debnath |
| 55 | SUPRATIM MANDAL | Supratim Mandal |
| 56 | SUSHOVAN JANA | Sushovan Jana |

Principal
Maulana Azad College
Kolkata-13



**Dr. Debashis Biswas delivering lecture in the Workshop on
"Ordinary & Partial Differential Equation"**

Principal
Maulana Azad College
Kolkata-13



MAULANA AZAD COLLEGE
8, Rafi Ahmed Kidwai Road, Taltala, Kolkata 700013.



Certificate of Appreciation
Session : 2022-23

This is to certify thatof
..... has participated
and successfully completed the Workshop on "Ordinary & Partial Differential Equation",
organized by the Department of Mathematics, Maulana Azad College in the period 24.06.2023 to
28.06.2023.

Head
Department of Mathematics

IQAC Coordinator

Principal

Sample Certificate Issued to the Participants



MAULANA AZAD COLLEGE
8, Rafi Ahmed Kidwai Road, Taltala, Kolkata 700013.



Certificate of Appreciation
Session : 2022-23

This is to certify that **Dr. Debashis Biswas**, Assistant Professor, Department of Mathematics,
Calcutta Girls' College has delivered lectures on Partial Differential Equation in the Workshop on
"Ordinary & Partial Differential Equation", organized by the Department of Mathematics,
Maulana Azad College in the period 24.06.2023 to 28.06.2023.

Head
Department of Mathematics

IQAC Coordinator

Principal

Certificate of Speaker Dr. Debashis Biswa

Principal
Maulana Azad College
Kolkata-13



PHONE : 2265-3414 (Principal)
: 2226-2540 (Office)

Calcutta Girls' College

3, GOALTULI LANE, KOLKATA - 700 013

E-mail : collegecalcuttagirls@gmail.com / admin@calcuttagirlscollege.ac.in

Website : www.calcuttagirlscollege.ac.in

NAAC ACCREDITED (CYCLE : 3) GRADE : B+

QMS (ISO 9001 : 2015) & EMS (ISO 14001 : 2015) CERTIFIED

Principal / Secretary

Ref. No.....

Date....22/06/2023

To

The Principal

Maulana Azad College

8. Rafi Ahmed Kidwai Road

Kolkata-700013

From

The Principal

Calcutta Girls' College

3, Goal Tuli Lane

Kolkata-700013

Sub: Permission to Dr. Debashis Biswas for conducting classes at your institution under Faculty Exchange Programme as per MOU

Sir,

I heartily thank you for establishing Faculty Exchange Programme between our neighbouring institutions as entitled in the MOU signed on 15.6.2023. I am extremely happy at this initiative towards institutional sharing of academic and intellectual resources.

Dr. Debashis Biswas, Assistant Professor in Mathematics, Calcutta Girls' College is given due permission to conduct classes in the Honours course for a maximum number of two days per week until further notification.

I hope our students would be enriched through this initiative.

Thank you,

With best wishes

S. Upadhyaya

Dr. Satya Upadhyaya

Principal & Secretary
Principal / Secretary
CALCUTTA GIRLS' COLLEGE
KOLKATA
Copy forwarded to



J. IQAC, Calcutta Girls' College.



पश्चिम बंगाल पश्चिम बंगाल WEST BENGAL

31AA 333102

**MEMORANDUM OF UNDERSTANDING
BETWEEN
CALCUTTA GIRLS' COLLEGE, KOLKATA
AND
MAULANA AZAD COLLEGE, KOLKATA**

The MOU is entered into on 15th June, 2023 by and between Calcutta Girls' College, situated at 3, Goaltuli Lane, Kolkata-700013, West Bengal and Maulana Azad College situated at 8, Rafi Ahmed Kidwai Rd, Taltala, Kolkata -700013, West Bengal.

| Incumbent 1 | Calcutta Girls' College | Incumbent 2 | Maulana Azad College |
|------------------|--|------------------|---|
| Represented by | Dr. Satya Upadhyaya, Principal | Represented by | Dr. Subhasis Dutta, Principal |
| Address (Office) | 3, Goaltuli Lane, Kolkata-700013, West Bengal. | Address (Office) | 8, Rafi Ahmed Kidwai Rd, Taltala, Kolkata -700013, West Bengal. |
| Email | collegecalcuttagirls@gmail.com | Email | maulanaazadcollegekolkata@gmail.com |
| Phone number | 033-22653414 | Phone number | 033-29730203 |

The aforesaid institutions are hereinafter referred to individually as institute and collectively as institutes.

Dr. Satya Upadhyaya
Principal
Maulana Azad College
Kolkata
15.6.23

Dr. Subhasis Dutta
Principal
Maulana Azad College
Kolkata
15.6.23

Dr. Satya Upadhyaya
Principal / Secretary
CALCUTTA GIRLS' COLLEGE
KOLKATA
15.6.23

11/06/23
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THE OBJECTIVES OF THE MOU:

1. The MOU involves activities primarily organized by both under graduate Department of Mathematics, Calcutta Girls' College and Under graduate Department of Mathematics, Maulana Azad College.
2. These Departments after discussion and on mutual consent may also collaborate with other Research Institutes/Universities Laboratories/IITs/Autonomous Universities for Interdisciplinary lectures/hands on training/workshops.
3. Both departments shall work towards the further enrichment in the quality of teaching at both undergraduate and postgraduate level by the following exchange programmes;
 - a. Faculty Exchange Programme
 - b. Student Exchange Programme
 - c. Remote Usage of Library
4. **Faculty exchange program** - The Mathematics departments of the above institutions shall be exchanging their faculties (online/offline as the case may be) in order to impart lectures that will enhance knowledge of the students. This may involve students from undergraduate curriculum.
5. **Student exchange program** - Each of the institutions will be sending over the willing students to the other institution's campus to learn relevant and allied topics from the other discipline through seminar/workshop/hands on training etc.
6. **Utilization of Library resources** - Students can access e resources available at the Library at both Colleges.
7. **Joint research activities** - The above institutions shall co-operate, explore in collaborative interdisciplinary research wherever feasible.
8. Both departments shall also be engaged in organizing activities as mentioned below involving teaching and non-teaching staff members of both Colleges:
 - a. Capacity Building Hands on Training for Faculty members
 - b. Research Innovation and Entrepreneurship Development programmes
 - c. Programmes on Skill Development and Employability
 - d. Digital empowerment and online education
9. Professional development/administrative training programs shall be organized jointly by both institutions for teaching and non-teaching staff members.
10. Orientation and training programmes for teaching and non-teaching staff members shall be arranged to further entrain them for e governance services like e - pension, e - PF, WBHS.

Maulana Azad College
Kolkata
Principal
15.6.23

Supriya
Principal / Secretary
CALCUTTA GIRLS' COLLEGE
KOLKATA
15.6.23

Point of Contact

Both the institutions shall be assigning an individual as a Point of contact for carrying out the above said activities.

Financial Obligation

The agreement is absolutely non -financial in nature and does not involve any monetary transactions between the parties for carrying out the objectives of the MOU.

Tenure and renewal of the MOU

The understanding should initially be for a period of five years and shall be renewed on the mutual consent of both the institutions.

Termination of the MOU

- The MOU shall be terminated in writing and with the mutual consent of both the institutions and involvement of both the heads of institutions will be must in case of termination.
- In case of any dispute concerning this understanding the same shall be tried immediately through the respective representatives of this understanding or any other person nominated by them.
- All disputes and differences arising out of this understanding if not settled in mediation shall be resolved in arbitration before a sole arbitrator to be jointly nominated by both the institutions herein to that effect upon mutual discussion and in terms of provisions of the arbitration and conciliation act 1996 (as amended till date). The proceedings before the arbitrator shall be in English.
- The laws of India shall be followed while adjudicating the disputes under this understanding.
- The venue of the arbitration shall be decided by the parties with mutual consent within the limits of city of Kolkata.

Effective period of memorandum

This cooperation agreement shall become effective as soon as the authorized persons of all sides agree on it. There will be two copies of the memorandum equally valid one for each party effective from its dates of signing.

Authorized signatory

Authorized signatory

S. Upadhyaya 15.6.23
Dr. Satya Upadhyaya
Principal
Calcutta Girls' College
Principal / Secretary
CALCUTTA GIRLS' COLLEGE
KOLKATA



Subhasis Dutta
Dr. Subhasis Dutta
Principal
Maulana Azad College
Kolkata



Suparna Bhattacharya
Dr. Suparna Bhattacharya 15/6/23
IQAC Coordinator
Calcutta Girls' College
Co-ordinator, I.Q.A.C.
CALCUTTA GIRLS' COLLEGE
Kolkata

Dipak Kumar Som 15/6/2023
Dr. Dipak Kumar Som
IQAC Coordinator
Maulana Azad College
Govt. of West Bengal
S. R.A. Kidwai Road, K.C. 13

WITNESS
Calcutta Girls' College

① *Bren Kuma Ghosh*
Associate Professor in Commerce
15/6/23

② *Dr. Debashis Biswas*
Assistant Professor
in Mathematics
15/6/23

WITNESS
Maulana Azad College

1) *Somnath Banerjee*
Associate Professor, 15.6.2023

2. *Nanda Sen*
Associate Professor
15.6.2023



Mou Signing on 15.06.2023 between Maulana Azad College & Calcutta Girls' College