



9153549620

dumkalcollege@gmail.com

DUMKAL COLLEGE

P.O- Basantapur, P.S- Dumkal, Dist.- Murshidabad, West Bengal, Pin- 742406

(Govt. Aided, Affiliated to the: University of Kalyani Included under section 2(f) & 12 (B) of UGC Act.)

2ND CYCLE NAAC ACCREDITATION PROCESS – 2024

Criterion 6: Governance, Leadership and Management

Key Indicator: 6.5 Internal Quality Assurance System

Metric: 6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities



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Internal Quality Assurance System



Strategies of IQAC




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Basantaour, Murshidabad



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Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities


1. The IQAC plans to request the Principal to do the needful for the purchase of books and periodicals for the Central Library of the college.
2. As per UGC guidelines, the IQAC plans to approach the Principal to take initiative to make arrangement for signing MOU with different institutions for academic purposes.
3. The IQAC feels it necessary to install microphone system in two large halls used as class rooms (205 and 301) for enhancing the teaching-learning experience.
4. The IQAC has helped to complete the process of Career Advancement Scheme (CAS) for the faculty members.

IQAC instructs departments to hold syllabus-based internal assessment/ project evaluation.

Also following initiatives are taken by IQAC:

- a. To get the real picture, all students are welcome to provide comments on the teachers, the teaching and learning process, and the evaluation.
- b. Following an assessment of the student feedback, the teachers are instructed accordingly.
- c. IQAC oversees the quality process of student-centered teaching and learning using ICT, projectors etc.
- d. The IQAC guide teachers to provide remedial instructions and reviews to the students whenever necessary.




Principal
Dumkal College
Basantapur, Murshidabad



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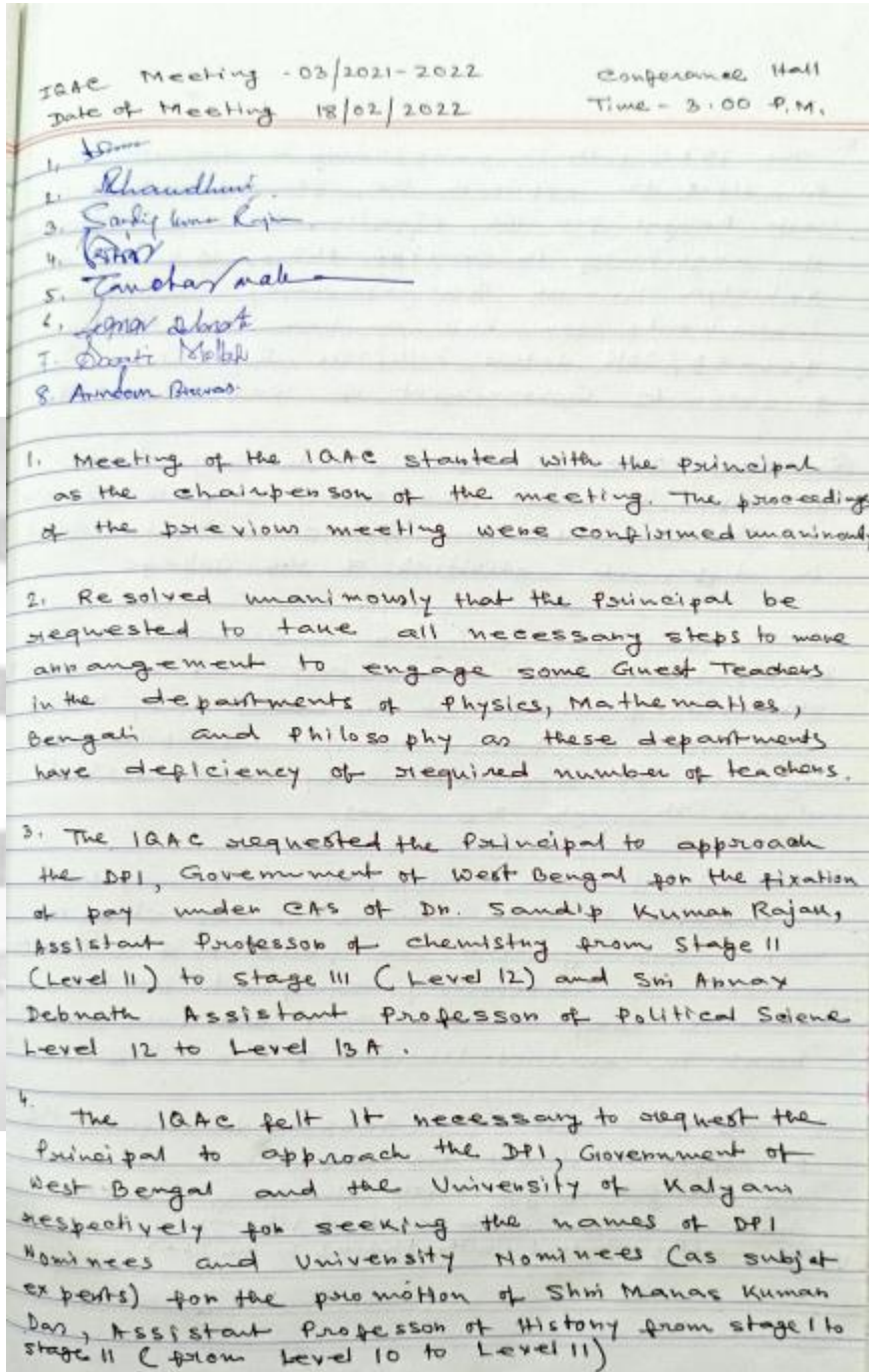
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The IQAC plans to request the Principal to do the needful for the purchase of books and periodicals for the Central Library of the college.




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5. The IQAC felt it necessary to request the Principal to approach the DPE Government of West Bengal for the fixation of pay on account of acquiring in service PhD on 10.11.2017 of Achintya Kumar Gangopadhyay with advance increments for PhD as per Memo No. 986-ED/2016 dated 24/11/2016, Education Directorate Government of West Bengal.


6. The IQAC took decision to request the Principal to make necessary steps to reshuffle all the Committee and sub-committees involved in different activities of the college.

7. The IQAC took decision to request the Principal to make necessary step to increase student participation in learning by having more students presentations/ seminar and to organise special lectures by distinguished alumni through seminars.

8. Resolved unanimously that the Principal be requested to take all necessary steps to make arrangement for purchase of sufficient number of Laboratory equipment for the Science departments and for purchase of books in central library of the college.

9. The IQAC felt it necessary to request the Principal to direct the Librarian for making necessary arrangement for introducing a career guidance corner in the central library.

10. The meeting ended with thanks to the chair.


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Dumkal College, basantapur
Dumkal, Murshidabad




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Dumkal College
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Exhibition of newly purchased books



College Library



[Signature]
Principal
Dumkal College
Basantapur, Murshidabad



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The IQAC plans to approach the Principal to take initiative to make arrangement for signing MOU with different institutions for academic purposes

1. Sandip Kumar
2. Sandip Kumar
3. Prashanthi
4. Anandabati
5. Anandabati
6. Debi Mallick
7. Debasis Bandyopadhyay
8. Arindam Biswas
9. IQAC Conference Hall
Date of IQAC Meeting 02/07/2022
Meeting No. 01/2022-23 Time - 2:00 PM.

Resolutions:-

1. The Principal took the chair and the meeting started. The proceedings of the previous meeting were confirmed unanimously.
2. Resolved unanimously that the Principal be requested to take necessary steps to expedite (through already notified) the CAS of Dr Sandip Kumar Rajak, Assistant Professor of Chemistry (from Stage III/Level 12 to Stage IV/Level 13 A) and do the needful to inform the DFI for processing the migration from SACT II to SACT I of Samrat Mondal, Deptt. of Political Science, Srijait Su. Deptt. of Physics; Sunjit Saha Deptt. of Physics; Abida Sultana, Deptt. of English.
3. Also resolved that the Principal be requested to take necessary steps for formation of different committees as proposed in this meeting.
(A) Internal Quality Assurance Cell, (B) NAAC committee, (C) Finance Committee (d) Purchase committee (e) Admission Committee, (f) Library Committee, (h) Sports and cultural committee; (i) Website and collage Notice Board Updating Committee. (j) Student welfare committee (k) Women Cell (L) Sexual Harassment Redressal cell, (m) PF Committee (n) Grievance Redressal cell.
4. The principal be also requested to take necessary steps for renewal of the SMS package needed for students admission and other official purpose.
5. The principal be also requested to take initiative to make arrangement and sign MOU with different institutions for academic purpose.
6. The meeting ended with thanks to the chair.


Principal
Dumkal College, Basantapur
Dumkal, Murshidabad


Principal
Dumkal College
Basantapur, Murshidabad





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Sample MoUs with different Colleges with activities



[Signature]
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Basantapur, Murshidabad



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1. Parties to the Agreement and the Legal Framework:

The Memorandum of Understanding (MoU) is entered into on this 13th day of September, 2022 towards the establishment of an Agreement by and between:

- **DUMKAL COLLEGE**, a Government Aided Undergraduate Degree College located at Basantapur, Dist.: MURSHIDABAD, PIN – 742406, State: WEST BENGAL, INDIA established in 1999 referred to as **DUMKAL COLLEGE**, affiliated to the University of Kalyani, Recognized by the UGC under Section 2(f) and 12 (B), represented by its Principal and referred to as **FIRST PARTY** (which term or expression shall unless excluded by or repugnant to the contest be deemed to mean and include its successor in office representatives, administrators and assigns) for the exchange of students, and faculties for purely academic purpose.

AND

- **BERHAMPORE GIRLS' COLLEGE**, a Government Sponsored Girls' College running with Post Graduate Programmes located at C.R. DAS ROAD, P. O.: BERHAMPORE, Dist.: MURSHIDABAD, PIN – 742101, State: WEST BENGAL, INDIA established in 1946 referred to as **BGC**, remained Affiliated to the University of Calcutta till 1999 and thereafter Affiliated to the University of Kalyani, Recognized by the UGC under Section 2(f) & 12(B) and represented by its Principal and referred to as **SECOND PARTY** (which term or expression shall unless excluded by or repugnant to the contest be deemed to mean and include its successor in office representatives, administrators and assigns) for the exchange of students, and faculties and infrastructural facilities for purely academic purpose.

Note: Both these institutes will be hereafter referred to as Parties.

2. Vision of the Agreement:

This agreement is drawn with a view to espouse the principles, policies, visions and objectives of the National Education Policy 2020. The Policy suggests a "seamless integration and coordination across institutions and across all stages of education". Both the institutions have the philanthropic visions to be fulfilled with regard to the MoU, which are:

- Whereas the two colleges agree upon to carry forward the ethical values and to inculcate the value of education so that the learners can face the challenging future confidently and successfully;
- Whereas the two colleges agree upon to evolve the institute as the centres of academic excellence;
- Whereas the two colleges agree upon to construct a platform for the exploration of the potentialities of the learners to be acquainted with the global knowledge society;
- Whereas the two colleges agree upon for striving to engage the students in meaningful extension activities and community welfare works.

Berhampore Girls' College
Principal
13.09.22

Dumkal College, Basantapur
Murshidabad, W/B
Principal
13.09.22



Principal
Dumkal College
Basantapur, Murshidabad



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3. Preamble:

3.1. Understanding of Cooperation:

Whereas **DUMKAL COLLEGE** and **BERHAMPORE GIRLS' COLLEGE** agree that cooperation in research collaborations, students, and faculty exchanges and collaborations with regard to infrastructural facilities would be mutually beneficial. The areas of cooperation may include, subject to mutual consent, any desirable and feasible activity that would further the goals of each institution with regard to academic collaboration.

Therefore, pursued by the goal of common interest **DUMKAL COLLEGE** and **BERHAMPORE GIRLS' COLLEGE** have intended to decide into the **Memorandum of Understanding (MoU)**, of which components for the cooperation are well-defined in the following Sections:

3.2. Article (i). Purpose of the Agreement:

- The broad Objectives of this agreement are to promote educational and scholarly exchange, academic collaboration between the parties involved as educational partners.
- Upon the mutual consent of both the parties, academic cooperation will be carried out in, but not necessarily limited to, the following activities:

A. Faculty/Staff exchanges

- Both the institutions will promote: the exchange of faculty for the common UG Honours & Programmes Courses.
- Faculty exchange for mutual benefit of both the institutions.
- Collaboration in teaching, research and development, and consultancy studies in the field of mutual interest.
- Exchange of academic materials and publications.
- Conducting lectures with the opportunity to teach or conduct research.
- Undertaking joint research wherever feasible.
- Participating in seminars, workshops, symposia, other kinds of academic discourses.
- Conducting study tours and joint consultancy work wherever feasible.

A specific plan will be worked out for each activity and detailed arrangements for such collaborative work will be agreed upon

B. Student Exchange

- Students exchange programme will be conducted on mutual understanding between two colleges.
- Exchanged students may be evaluated by the host institution if such an evaluative framework for the academic interest of students be worked out. This will in no way impede or influence her/his evaluation in own college or university assessment/ evaluation.

Berhampore Girls' College
Principal
13.09.22
Arindha

Dumkal College, Basantapur
Principal
Murshidabad, W.B.
S. Sanyal



Principal
Dumkal College
Basantapur, Murshidabad



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C. Other areas

- To exchange information and experiences on research and educational programmes.
- To exchange information on teaching, learning material and other literature relevant to their educational and research programmes.
- To organize seminars, faculty development programmes, workshops jointly on topics of mutual interest and to invite each other's faculty to participate therein.
- To explore the provision of cultural and intellectual enrichment opportunities for staff, faculty and students of both the institutes.
- To use library reading room facilities for a specified period.
- To use Computer laboratory and I.C.T. facilities in specific cases (with prior approval of Head of the Institutions) for a limited period.

Note: DUMKAL COLLEGE and BERHAMPORE GIRLS' COLLEGE agree with the detailed terms and conditions that would guide each activity as identified above and that will be identified jointly and these will be agreed upon by the two colleges. These will also include the technical description of the proposed activity and the financial arrangements and the person(s) responsible for its implementation.

3.2. Article (ii). Coordination and Execution of the Agreement:

- A Coordination Committee consisting of two Heads and two Coordinators and quite a few members from each college will steer up the joint initiative and that will periodically (once in a year) review the activities and identify new innovative areas of activities.
- The specific activities to be carried out under this Agreement will be started in corresponding specific Sub-agreements. Once such Sub-agreements are approved by the both parties that will be attached as annexes to this agreement. The specific Sub-agreements will demonstrate the Objectives, Conditions and the Way of Execution, Financial Arrangement, Period of Execution and the Administrative Responsibilities of the two parties.

3.2. Article (iii). Confidentiality of the Agreement and the Protection of Intellectual Property

Rights (IPR):

- The two colleges will maintain reciprocal relations and retain and respect individual confidentiality including those pertaining to the collaborative activities of both the Colleges.
- The Agreement will respect Intellectual Property Rights (IPR) and any intellectual matter developed by the collaborative efforts shall be retained by them.

3.2. Article (iv). Duration, Amendment and Expiration of the Agreement:

The Agreement will come into effect after being signed by both parties and will be established for a period of 05 (five) years. After the completion of this period, the Agreement

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Berhampore Girls' College

Principal
Dumkal College, Basantapur
Murshidabad, W.B.



Principal
Dumkal College
Basantapur, Murshidabad



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will automatically be extended for another 05 (five) years, unless one of the Parties expresses an intention (in written form) to cancel the Agreement at least 90 (ninety) days before the expiry date. The Agreement may be amended at any time by mutual agreement in writing as an addendum. The Amendment, Termination and Expiration of the Agreement will not affect the terms of activities ongoing at the time of Notification of Amendment, Termination and Expiration, unless otherwise agreed upon between the Parties.

3.2. Article (v). Non-Exclusivity:

The Agreement is a Non-exclusive Agreement and both Parties remain free to enter into similar Agreements with other parties.

3.2. Article (vi). Special Provisions:

(a) Each Party will take approval from the other Party in writing prior to using the Later's name and Logo for the activities here under on a case by case basis;

(b) Neither Party can misuse this MoU by involving the name of the other without the written consent from the other Party;

(c) There will be no vested interest by neither of the party involved apart from quality enhancement.

3.2. Article (vii). Dispute Resolution:

In case of any dispute relating to any aspect of Academic Activity, the Head of the institutions of both the colleges will jointly resolve the dispute by amicable means in a spirit of independence, mutual respect and cooperative responsibility.

DOMKAL GIRLS' COLLEGE and BERHAMPORE GIRLS' COLLEGE welcome the signing of this Memorandum of cooperation and jointly agree to the provisions set out as above.

FOR
DUMKAL COLLEGE

Name: Dr. Bhabesh Pramanik
Designation: Principal
Date: 13.09.22
Principal
Dumkal College, Basantapur
SE, Murshidabad



1. Witness:
Name: Sandip Kumar Roy
Designation: Assistant Prof
Date: 13.9.2022

FOR
BERHAMPORE GIRLS' COLLEGE

Name: Dr. Hena Sinha
Designation: Principal
Date: 13.09.2022



Principal
SE, Berhampore Girls' College

2. Witness:
Name: Partha Sanathi Guha
Designation: Assistant Professor
Date: 13.9.22



Principal
Dumkal College
Basantapur, Murshidabad



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Memorandum of Understanding between

Dumkal College, Basantapur, Murshidabad
&
Berhampore Girls' College
Berhampore, Murshidabad

Report on MoU Activities

Session: 2022-2023

- **Institution(s) under MOU:**
Dumkal College and Berhampore Girls' College
- **Date of agreement and duration:** 13.09.2022 duration: up to 12.09.2027
- **Purpose of MOU:**
To excel in our shared academic areas of interest.
- **Activities Conducted:**
Both institutions have facilitated the exchange of faculty for undergraduate Honours and Programme Courses. (A detailed report on faculty exchange is attached herewith.)
- **Outcomes:**
 - The Faculty Exchange programme between Dumkal College and Berhampore Girls' College has been a successful endeavor, enriching the teaching and learning processes at both institutions.
 - Visiting faculties from both colleges have exchanged valuable ideas and knowledge, benefiting both parties.
 - The exchange programme offers temporary faculty support to departments facing a shortage of teachers. Faculty members from both colleges contribute by teaching specific courses or portions of the syllabus.
 - Students from both colleges benefit from exposure to diverse teaching methodologies employed by the visiting faculties.

H. Sinha

Dr. Hena Sinha
Principal
Berhampore Girls' College
Berhampore, Murshidabad.

Principal
Berhampore Girls' College

B. Pramanik

Dr. Bhabesh Pramanik
Principal
Dumkal College
Basantapur, Murshidabad.

Dr. BHABESH PRAMANIK
Principal
Dumkal College, Basantapur
Dumkal, Murshidabad



B. Pramanik

Principal
Dumkal College
Basantapur, Murshidabad



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Detailed Report of Faculty Exchange Programme

This is to certify that as a part of this MoU both institutions have promoted faculty exchange programme for their mutual benefit. Following teachers have taken classes.

Class Details:

Name of the Teacher	Designation	Affiliating Institution	Date	Semester	Course Code
Dr. Sandip Kumar Rajak	Associate Professor	Dumkal College	06.3.2023	4 th	CC-T-8
Dr. Swati Mollah	Associate Professor	Dumkal College	20.3.2023	6 th	CC-T-14
Manas Kumar Das	Assistant Professor	Dumkal College	06.3.2023	2 nd	CC-T-03

Class Details:

Name of the Teacher	Designation	Affiliating Institution	Date	Semester	Course Code
Dr. Madhu Mitra	Associate Professor	Berhampore Girls' College	03.4.2023	4 th	CC-T-8
Dr. Nemai Saha	Assistant Professor	Berhampore Girls' College	03.4.2023	6 th	CC-T-14
Munmun PalBag	SACT	Berhampore Girls' College	08.4.2023	4 th	CC-T-8

Hena

Dr. Hena Sinha
Principal
Berhampore Girls' College
Berhampore, Murshidabad

Principal
Berhampore Girls' College



Bhabesh

Dr. Bhabesh Pramanik
Principal
Dumkal College
Basantapur, Murshidabad

Dr. BHABESH PRAMANIK
Principal
Dumkal College, Basantapur
Dumkal, Murshidabad



Bhabesh

Principal
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पश्चिमबंगाल पश्चिम बंगाल WEST BENGAL

49AB 692563

MEMORANDUM OF UNDERSTANDING


HAZI A.K.KHAN COLLEGE
HARIHARPARA, MURSHIDABAD
AND
DUMKAL COLLEGE
DUMKAL, MURSHIDABAD

FOR DEVELOPMENT OF ACADEMIC COOPERATION IN THE
COLLEGES, MENTIONED

The general objective of this Memorandum of Understanding (MoU) is to stimulate and facilitate development of collaborative and mutually beneficial programmes which definitely enhance the intellectual life and cultural development of both the institutions, and to contribute towards inter-college cooperation. Thus, Hazi A.K.Khan College and Dumkal College have agreed to transact some academic activities in support of their mutual interests in the field of education and research:

- Both the colleges will:
 - Cooperate in exchange of information relating to their activities in teaching and research;
 - Promote joint research projects and joint courses of study, focusing on internationally funded projects;
 - Attempt to encourage students and staff to spend requisite time in the host College;
 - Conduct short courses, cultural projects and study tours in joint collaboration, with written agreement, prior to commencement of these activities;




Principal
Dumkal College
Basantapur, Murshidabad



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2. Accreditation for academic work carried out by any student during the period of study at the host College will go to the discretion of the student's home college.
3. Admission to a specific Department or Course is subject to a student being satisfactorily qualified for the chosen area of study and the availability of resources in the period for which admission is sought.
4. The aim of the Memorandum of Understanding shall be to attain equality in respective contributions and achievements, which shall be reviewed periodically from both ends.
5. All other financial matters, including travel costs, are subject to negotiation, and will normally be the responsibility of the persons involved and decisions of their home college.
6. The host College will agree to provide work space, access of Library and avail technical facilities accordingly.

This agreement will take effect from 7th September, 2022 to 30th June, 2027 unless sooner terminated, revoked or modified by mutual written agreement between the parties and may be extended by mutual written agreement.
Either party may terminate the Agreement at any time producing a three months' prior notice to the other party.

AGREED

Gautam Kumar Chosh

Principal
Signature of Principal
Haziakhan College
Hariharpura, Murshidabad
Hariharpura, Murshidabad, 742166
haziakhancollege@yahoo.com

Budesh Prannik

Signature of Principal
Dumkal College
Dumkal, Murshidabad, 742406
dumkalcollege@gmail.com

Principal
Dumkal College, Basantapur
Murshidabad, W.B.

Witness - 1.

Bidisha Munde
07.09.2022

Witness - 2.

M. M. F.



[Signature]
Principal
Dumkal College
Basantapur, Murshidabad



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Memorandum of Understanding between

Hazi A. K. Khan College, Hariharpara, Murshidabad
&
Dumkal College, Basantapur, Murshidabad

Report on MoU Activities

Session: 2022-2023

❖ **Institution(s) under MOU:**

Hazi A. K. Khan College and Dumkal College

❖ **Date of agreement and duration:** 07.09.2022 duration: upto 30.06.2027

❖ **Purpose of MOU:**

to gain excellence in the academic areas of mutual interest.

❖ **Activities Conducted:**

Both the institutions have promoted the exchange of faculty for common UG Honours & Programme Courses. (Detailed Report of faculty exchange is enclosed herewith)

❖ **Outcomes:**

The Faculty Exchange programme between Hazi A.K. Khan College and Dumkal College is a successful initiative that helped to enhance the teaching learning process of both colleges.

- Visiting faculties from both colleges shared and brought back some valuable ideas and knowledge.
- The exchange initiative provides temporary faculty support to the Departments where there is lack of sufficient teachers. The faculties of both colleges assist in teaching certain courses or portion of the syllabus.
- Students of both colleges are also benefitted from exposure to different teaching methodologies employed by the visiting faculties.

Dr. Goutam Kumar Ghosh

Principal

Hazi A. K. Khan College

Hariharpara, Murshidabad

Principal

Hazi A.K. Khan College
Hariharpara, Murshidabad

Dr. Bhabesh Pramanik

Principal

Dumkal College

Basantapur, Murshidabad

Principal

Dumkal College, Basantapur
Murshidabad, W.B.



Principal
Dumkal College
Basantapur, Murshidabad



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Detailed Report of Faculty Exchange Programme

This is to certify that as a part of this MoU both institutions have promoted faculty exchange programme for their mutual benefit. Following teachers have taken classes.

Class Details:

Name of the Teacher	Designation	Affiliating Institution	Date	Semester	Course Code
Dr. Munmun Dutta	Assistant Professor of Philosophy	Hazi A. K. Khan College	22.05.23	4th	PHIL-H-CC-T-VIII
				6th	PHIL-H-DSE-T-III
Emanuel Hansda	Assistant Professor of Philosophy	Hazi A. K. Khan College	13.12.22	5th	PHIL-H-DSE-T-III
				1st	PHIL-H-CC-T-I
Dr. Pulokes Mandal	Assistant Professor of Bengali	Hazi A. K. Khan College	22.05.23	4th	BENG-H-CC-T-VIII
				6th	BENG-H-CC-T-XIV
Dr. Nanigopal Malo	Assistant Professor of Bengali	Hazi A. K. Khan College	14.12.22	3rd	BENG-H-CC-T-XI
				1st	BENG-H-CC-T-I

Class Details:

Name of the Teacher	Designation	Affiliating Institution	Date	Semester	Course Code	
Arnav Debnath	Associate Professor of Political Science	Dumkal College	03.12.22	5 th	POL-H-CC-T-XII	
				27.04.23	4 th	POL-H-CC-T-IX
					6 th	POL-H-CC-T-XIV
Dr. Swati Mollah	Associate Professor of Geography	Dumkal College	07.12.22	1st	GEO-H-CC-T-I	
				3rd	GEO-H-CC-T-V	
Dr. Prasenjit Kr Mondal	Assistant Professor of Geography	Dumkal College	16.12.22	5 th	GEO-H-CC-T-XI	
				3rd	GEO-H-CC-T-VI	
Arindam Biswas	Assistant Professor of Geography	Dumkal College	12.04.23	1st	GEO-H-CC-T-II	
				04.04.23	1st	GEO-H-CC-T-I

Dr. Goutam Kumar Ghosh

Principal

Hazi A. K. Khan College

Hariharpara, Murshidabad

Principal

Hazi A.K. Khan College
Hariharpara, Murshidabad

Dr. Bhabesh Pramanik

Principal

Dumkal College

Basantapur, Murshidabad

Principal

Dumkal College, Basantapur
Murshidabad, W.B.



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Introduction of Microphone by IQAC

Date of Meeting - 09/07/2022 Conference
Meeting No. 02/2022-23

1. Items to be discussed
2. Debasish Choudhury
3. Rhandhini
4. Arpan Choudhury
5. Sandip K. Paul
6. Tanishq Mollah
7. Dipankar Mollah
8. Ananda Bhowal
9. ~~Arpan~~

Resolution taken:

1. The Principal took the chair and officially stated the meeting. The proceedings of the previous meeting were confirmed unanimously.
2. The principal be requested to propose the matter of pay fixation of Dr. Tanishq Mollah, Assistant Professor of Mathematics, on the basis of his 10th annual.
3. The IQAC requested the principal to do the needful for the purchase of books and periodicals for the Central Library of the College.
4. The IQAC feels it necessary to install microphone system in two large halls used as class rooms (205 and 301) for enhancing the teaching-learning experience.
5. The IQAC requested all faculty members to attend different academic courses of UGC whenever and wherever it is possible for the academic advancement.
6. The IQAC feels it desirable to make arrangements for displaying at least two daily newspapers (one in English and one Bengali) just at the entrance of the college.

7. The principal be requested to grant necessary amount to the department of philosophy for conducting a college level seminar.
8. The meeting ended with thanks to the chair.

[Signature]

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Dumkal, Murshidabad



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IQAC takes initiatives for Career Advancement Scheme (CAS) of Teachers

Date of IQAC Meeting 23.11.2022
Meeting No. 03/2022-2023

conference hall
time - 2.30 PM

1. Barkha Kumar
2. Sandip K. Raja
3. Khanchuni
4. Debat Mollah
5. Anurupa
6. Tanchar Molla
7. Debasis Chandrapadhyay
8. Arundhara Bhowmik
9. Rono

Resolutions:-

1. The principal took the chair and meeting started. The proceedings of the previous meeting of the previous meeting were continued unanimously.
2. Resolved unanimously that the Principal be requested to take necessary steps to expedite the CAS of Dr. Sandip Kumar Raja, Assistant Professor of Chemistry (from stage III / Level 12 to Stage IV / Level 13A), Shri Manas Kumar Das, Assistant Professor of History (Level 10 to Level 11) and Debarika Kanungo, Librarian of the college (from stage I / Level 10 to stage II / Level II / Level II) and to do the needfull to inform the DPI and the concerned university for necessary action.
3. The House felt it necessary to request the principle to grant on duty leave to Yasu Nune, Assistant Professor of Chemistry and Dr. Tanchar Molla, Assistant Professor of Mathematics for attending Faculty Development Programme and Refreshen course respectively.
4. The IQAC feels it necessary to request the Principal to take necessary steps to fill up the vacant post of Assistant Professor of Physics (left vacant by Dr. Pratik Kumar Bhowmik)
5. The meeting ended with thanks to chair.

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Regular Internal Evaluation Internal Questions

Dumkal College

U.G. 5th Semester 1st Internal Examination-2022

MATHEMATICS
[HONOURS]

Course Code: MATH(H)CC-T-11 & MATH(H)CC-T-12

Full Marks: 10+10

Time: 1 Hour

*The figures in the right- hand margin indicate marks.
Symbols have their usual meaning.*

MATH(H)CC-T-11

- Answer any **three** questions: 3 × 2 = 6
 - Give an example of a linear, semilinear, quasilinear and non-linear first order PDE.
 - Find the characteristics curves and the PDE $u_{xx} + xu_{yy} = 0, x < 0$.
 - Eliminate the arbitrary function and form the PDE from $z = f(\frac{xy}{z})$.
 - Find the general integral of the equation $p + 3q = 5z + \tan(y - 3x)$.
- Answer any **one** question: 1 × 4 = 4
 - Reduce the equation $\frac{\partial^2 z}{\partial x^2} = x^2 \frac{\partial^2 z}{\partial y^2}$ to canonical form.
 - Find the solution of Cauchy problem $u_x + xu_y = 0$ with $u(0, y) = \sin y$.

MATH(H)CC-T-12

- Answer any **three** questions: 3 × 2 = 6
 - Define external direct product of groups.
 - Show that the direct product $\mathbb{Z}_4 \times \mathbb{Z}_6$ of the cyclic groups \mathbb{Z}_4 and \mathbb{Z}_6 is not cyclic.
 - Let G be a group and $Z(G)$ the center of G . If $a \in Z(G)$, then prove that $cl(a) = \{a\}$ and conversely.
 - State the Cauchy's theorem on finite groups & also Cauchy's theorem on finite abelian groups.
- Answer any **one** question: 1 × 4 = 4
 - Let G_1, G_2, \dots, G_n be n groups. Show that $Z(G_1 \times G_2 \times \dots \times G_n) \simeq Z(G_1) \times Z(G_2) \times \dots \times Z(G_n)$.
 - Find the conjugacy classes in S_3 and write down the class equation.

1




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Dumkal College

U.G. 5th Semester 1st Internal Examination-2022

MATHEMATICS
[HONOURS]

Course Code: MATH-H-DSE-T-01 & MATH-H-DSE-T-02

Full Marks: 10+10

Time: 1 Hour

*The figures in the right- hand margin indicate marks.
Symbols have their usual meaning.*

MATH-H-DSE-T-01

1. Answer any **five** questions:

5 × 2 = 10

(a) Reduce the following problem in its standard form:

$$\text{Maximize } Z = 2x_1 + 3x_2 - x_3$$

Subject to

$$5x_1 - x_2 + 7x_3 \geq 3$$

$$x_1 + x_2 - 3x_3 \leq -2$$

$$4x_1 + x_2 \leq 1$$

$$x_1, x_2, x_3 \geq 0.$$

(b) Define convex set, degenerate and non-degenerate basic feasible solution.

(c) Examine whether the following set is convex:

$$X = \{(x_1, x_2) : x_1 \geq 2, x_2 \leq 3, x_1, x_2 \geq 0\}.$$

(d) Prove that $x_1 = 5, x_2 = 0, x_3 = -1$ is a basic solution to the set of equations


$$x_1 + 2x_2 + x_3 = 4$$

$$2x_1 + x_2 + 5x_3 = 5.$$

(e) Prove that dual of the dual is the primal itself.

(f) Show that whatever may be the value of a , the game with the following payoff matrix




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is strictly determinable:

	B_1	B_2
A_1	3	7
A_2	-3	a

(g) Apply the maximin & minmax principle to solve the game whose payoff matrix is given below

	B_1	B_2	B_3
A_1	-1	-2	4
A_2	-1	1	2
A_3	2	2	6

MATH-H-DSE-T-02

1. Answer any **three** questions:

$3 \times 2 = 6$

- State the Tchebycheff's inequality.
- 5 coin are thrown simultaneously. Find the probability of getting at least 3 heads.
- For a random variable X , find the lower bound of the probability $P(\mu - 2\sigma \leq X \leq \mu + 2\sigma)$, where μ and σ are mean and variance respectively.
- Find the probability that there may be 53 sundays in a leaf year.

2. Answer any **one** questions:

$1 \times 4 = 4$

- The integers x and y are chosen at random with replacement from nine numbers 1, 2, 3, ..., 8, 9. Find the probability that $|x^2 - y^2|$ is divisible by 2.
- State and prove Strong Law of Large Number Theorem.




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DUMKAL COLLEGE/CHEMISTRY(Hons)/CC-12/SEM-5/INTERNAL EXAM 2021
FM-20 **Date: 17.1.2021** **TIME-90MIN**

1. Answer any two questions: 1X2=2

- Write the expression for Morse potential explaining all terms.
- What is the condition to be microwave active ?
- Define Chemical shift

2. Answer any two questions: 2X2=4

- What is Born-Oppenheimer approximation.
- Give two example of ESR active compound and why these are ESR active—explain.
- Why molecule cannot have zero energy at its ground state?


3. Answer any two questions: 3X2=6

- The fundamental and first overtone transition of NO molecule are centred at 1867 cm^{-1} and 3724 cm^{-1} respectively. Evaluate the equilibrium vibration frequency
- How many degrees of freedom (vibrational) does CO_2 have? How vibrational frequency is related to force constant?

4. Answer any two questions: 4X2=8

- Explain with mathematical equation the type of pure rotational Raman spectrum expected for diatomic molecule.
- Write an expression for rotational-vibrational energy of rigid rotor with harmonic vibration. What are the selection rules for a rigid rotor with harmonic vibration? How do they change for a non-rigid rotor with anharmonic vibration?
- Given the bond lengths of H^{35}Cl and D^{35}Cl as 1.27Å, calculate the rotational constant of these two molecules. (Mass of H atom=1.0079 and of D=2.0141 units)




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Date: 10.11.2022

Internal Examination 2022, Department of Chemistry

Assignment for of 5th semester Hons core course :
FM:10

Inorganic:

1. Write in detail the Gouy method of measurement of magnetic susceptibility. What is Curie temperature? 5
2. At room temperature, the observed value of m_{eff} for $[Cr(en)_3]Br_2$ is 4.75 mB. Is the complex high- or low-spin? en is the abbreviation of 1,2-Ethanediamine. 5

Organic: Microwave assisted organic reaction in organic and water solvent reflecting the advantages over conventional methods

Physical : Write a short note on capillary action. [keyword- Definition, capillary rise, height of the liquid in capillary tube in different condition.]


Assignment for 5th semester Programme course :

Write down a short notes on i) Carbonization of Coal ii) Octane number iii) Antiknock compounds.

*****All students are noticed to submit the assignments (hard copy) within 25.11.2022 . After the last date of submission , no assignment will be accepted.**

Head of the Department
Dept. of CHEMISTRY
Dumkal College, Basantapur




Principal
Dumkal College
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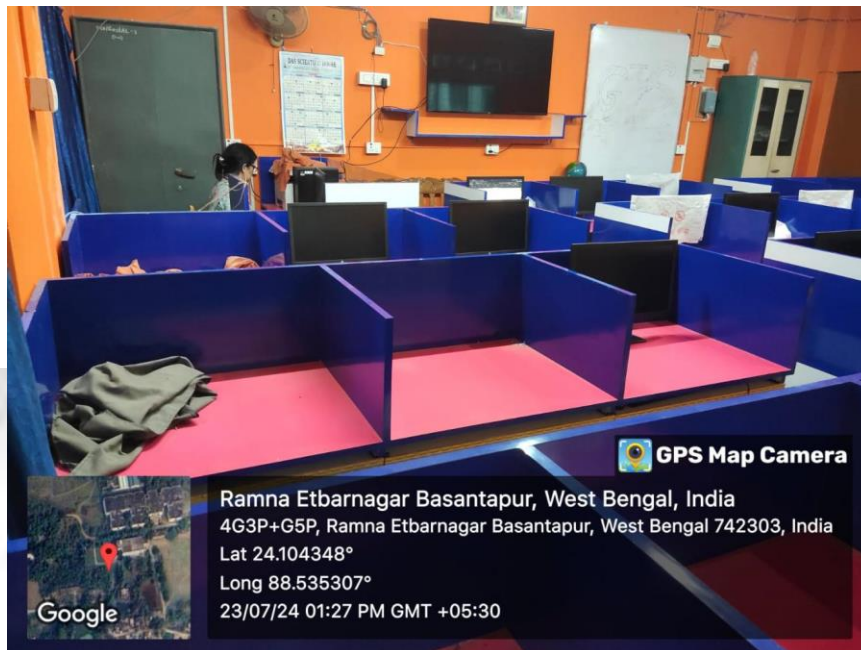
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Introduction of Smart class

Geography



Chemistry



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