



## GOVERNMENT GIRLS' GENERAL DEGREE COLLEGE

7, Mayurbhanj Road, Kolkata - 700023

Telephone No. : 033-2448-1160, 033-2448-1171

E-mail: [gggdc.coll@gmail.com](mailto:gggdc.coll@gmail.com)

Website: [www.govtgirlsekalpur.com](http://www.govtgirlsekalpur.com)

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Date:.....

### Criterion -3 Research, Innovations and Extension

#### Key Indicator 3.2-Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations, Indian Knowledge System including awareness about IPR, establishment of IPR Cell, incubation center and other initiatives for creation and transfer of knowledge/technology and the outcomes of the same are evident.

#### Contents for Documentation

1. *Research Highlights: Publication in International Journal and Ph.D. Supervision*
2. *Wall Magazine and college Magazine (Niswan)*
3. *SERB Sponsored Astronomy and Astrophysics Workshop for faculties*
4. *Sanitizer preparation and distribution*
5. *Syllabus containing course & curriculum reflecting Indian knowledge System (Political Science, History, Sociology, Urdu, Geography)*
6. *Yoga for fitness and karate for self defense*
7. *Incubation Centre*
8. *Heritage study Centre*
9. *Language Centre*
10. *MOUs and Collaboration*

  
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## Research Highlights: Publications in International Journal

NJC



PAPER



Cite this: *New J. Chem.*, 2020, 44, 4898

### An unorthodox metal-free synthesis of dihydro-6H-quinoline-5-ones in ethanol/water using a non-nucleophilic base and their cytotoxic studies on human cancer cell line†

Arijit Kundu,<sup>1</sup> Bhaswati Bhattacharyya,<sup>2</sup> Kaliprasanna Dhara,<sup>3</sup> Subhabrata Paul,<sup>2</sup> Indira Majumder<sup>2</sup> and Rita Kundu<sup>2</sup>

A DBU-catalysed metal-free domino reaction strategy has been developed for the facile synthesis of dihydro-6H-quinoline-5-ones. This protocol employs a very expedient route to the synthesis of pyridine frameworks using  $\beta$ -chloro- $\alpha,\beta$ -unsaturated aldehydes, 1,3-diketones, and ammonium acetate in ethanol/water (1:1) solvent under eco-friendly conditions. Diverse types of acyclic and cyclic  $\beta$ -chloro- $\alpha,\beta$ -unsaturated aldehydes were used to obtain a variety of dihydro-6H-quinoline-5-ones. The mechanism of the domino reaction was established by isolating the intermediate compound, which was subjected to the next step of the reaction to obtain the target product. The structure of the intermediate was established from spectral and single crystal XRD studies. Most of the synthesized dihydro-6H-quinoline-5-one derivatives were found to be cytotoxic to the HeLa cell lines, showing profound cytotoxicity in MTT assays. The DNA fragmentation assay showed no fragmented DNA in the treated sets, which indicated that the compounds did not induce apoptosis of the HeLa cells. In most of the cases, autophagic cell death was evident from fluorescence microscopy studies, though necrosis was also observed in some cases.

Received 23rd December 2019.  
Accepted 17th February 2020  
DOI: 10.1039/c9nj06546c

rsc.li/njc

PHYSICAL REVIEW A **108**, 032416 (2023)

### Hidden non- $n$ -locality in linear networks

Kaushiki Mukherjee<sup>1,\*</sup>, Soma Mandal<sup>2,\*</sup>, Tapaswini Patro<sup>3,†</sup> and Nirman Ganguly<sup>3,‡</sup>

<sup>1</sup>Department of Mathematics, Government Girls' General Degree College, Ekbalpore, Kolkata-700023, India

<sup>2</sup>Department of Physics, Government Girls' General Degree College, Ekbalpore, Kolkata-700023, India

<sup>3</sup>Department of Mathematics, Birla Institute of Technology and Science Pilani, Hyderabad Campus, Telangana-500078, India

(Received 16 March 2023; revised 3 July 2023; accepted 6 September 2023; published 19 September 2023)

We study hidden nonlocality in a linear network with independent sources. In the usual paradigm of Bell nonlocality, there are certain states which exhibit nonlocality only after the application of suitable local filtering operations, which, in turn, are some special stochastic local operations assisted with classical communication (SLOCC). In the present work, we introduce the notion of hidden non- $n$ -locality. The notion is detailed using a bilocal network. We provide instances of hidden nonbilocality and nontrilocality, where we notice quite intriguingly that nonbilocality is observed even when one of the sources distributes a mixed two-qubit separable state. Furthermore, a characterization of hidden nonbilocality is also provided in terms of the Bloch-Fano decomposition, wherein we conjecture that, to witness hidden nonbilocality, one of the two states (used by the sources) must have nonnull local Bloch vectors. Noise is inevitable in practical scenarios, which makes it imperative to study any possible method to enhance the possibility of detecting nonclassicality in the presence of noise in the network. We find that local filtering enhances the robustness to noise, which we demonstrate using bit-flip and amplitude-damping channels.

DOI: 10.1103/PhysRevA.108.032416

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## Ph.D. Supervision

**Dr. Shabnam Parveen (Urdu) & Dr. Soma Mandal (Physics)**

|   |  |  |
|---|--|--|
|  <p><b>THE UNIVERSITY OF BURDWAN</b><br/>2942</p> <p><i>Parakebshara Anjum</i><br/>having submitted a thesis entitled "<i>Musajja Ahmad Abbas Babarigal Afsana Nigar Ek Saugandi Motokar</i>"</p> <p>and having satisfied all the conditions prescribed in this respect by the University, as per UGC's regulation-2009, was duly admitted to the degree of Doctor of Philosophy in <u>Urdu</u> in the year <u>2019</u>.</p> <p>Prof. Shabnam<br/>The 05th March 2019.</p> <p>Vice-Chancellor</p> |  <p><b>University of Calcutta</b><br/>Senate House, Kolkata - 700073</p> <p>Date of Enrolment : 29th June 2021<br/>Registration Number : 06035Ph.D (Sc) (Phiced)2022<br/>Date of Registration : 10th February 2022 Date of Letter : 21st February 2022<br/><small>(Please quote the above Number and Date in all future Correspondence)</small></p> <p>From: Deputy Registrar (Acting)<br/>University of Calcutta</p> <p>To: Sri Sachinika Chattopadhyay<br/>B/1, Anil Apartment, Bank Lane,<br/>Hutton Road, Asansol-713301.</p> <p>Dear Sir,</p> <p>I am desired to inform you that you have been granted registration for the Ph.D. programme under this University in <b>Physics (Theoretical)</b> in terms of 6.6 of the Regulations for the Degree of Doctor of Philosophy (Ph.D.), C.U., framed under UGC Guidelines, 2016.</p> <p>This registration shall remain valid for next six years with effect from the date of enrolment as indicated above.</p> <p>You are to comply with the usual rules of migration in case you have passed the qualifying examinations for the Ph.D. programme from a University/Institute other than the University of Calcutta.</p> <p>Title of Thesis<br/>"Study Of X-Ray Timing Properties Of Neutron Star Low Mass X-Ray Binaries."</p> <p>Name of the Supervisor : Dr. Soma Mandal</p> |  <p><b>THE UNIVERSITY OF BURDWAN</b><br/>3159</p> <p><i>Nabhat Parveen</i><br/>having submitted a thesis entitled "<i>Khanuja Ahmad Abbas Ka Navilon Ka Samagati Mohala</i>"</p> <p>and having satisfied all the conditions prescribed in this respect by the University, as per UGC's regulation 2009, was duly admitted to the Degree of <b>Doctor of Philosophy</b> in <u>Urdu</u> in the year <u>2021</u>.</p> <p>Prof. Shabnam<br/>The 4th February 2021</p> <p>Vice-Chancellor</p> |
|   |  |  |

*Shabnam*

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## Wall Magazine and College Magazine



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## ***SERB Sponsored Astronomy and Astrophysics Workshop for faculties***



*Signature*



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## Sanitizer preparation and distribution



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## ***Syllabus containing course & curriculum reflecting Indian knowledge System***

### **Political Science**

#### **Semester III**

**Indian Political Thought– I** Code: PLS-A-CC-3-5-TH+TU

#### **Module I:**

- 1 Ancient Indian Political ideas: overview.
2. Kautilya: Saptanga theory, Dandaniti, Diplomacy.
3. Medieval political thought in India: overview (with reference to Barani and Abul Fazal). Legitimacy of kingship.
4. Principle of Syncretism.

### **Portions of the Syllabus Incorporating the Indian Knowledge System**

#### **History (Hons.)**

| System         | Part/Semester | Paper | Module/ Unit                                     | Topic   |
|----------------|---------------|-------|--|---|
| Annual (1+1+1) | Part-I        | I     | Unit-1: Modules II, III, IV<br>Unit: 2: Module V | History of India from the earliest times to 600 CE      |
| CBCS           | Semester-1    | CC-1  | I, III & IV                                      | History of India (From the Earliest times to C 300 BCE) |
|                | Semester -3   | CC-3  | V  | History of India (c 300 BCE to c.750 CE)                |
|                | Semester- 5   | CC-5  | V  | History of India (c.750 – 1206)                         |

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### Syllabus Containing Course & Curriculum reflecting Indian Knowledge System

#### Arabic Hons (CBCS)

| SL | Semester | Paper/ Unit                      | Topic                                      | Writer          |
|----|----------|----------------------------------|--|-----------------|
| 01 | VI       | CC- 13/ Prose<br>(Modern Period) | As-Saqafatul Hindiyyah<br>(Indian Culture) | Dr. Ahmed Ameen |

#### Semester-VI

##### CC-13:Prose (Modern Period)

|                      |                       |
|----------------------|-----------------------|
| مصطفى لطفي المنفلوطي | (1) الدفين الصغير     |
| نجيب محفوظ           | (2) حادثة (دنيا الله) |
| أحمد أمين            | (3) الثقافة الهندية   |
| علي الطنطاوي         | (4) بين الأمس واليوم  |

[18]

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## *Indian Knowledge System related syllabus*

### *Department of Sociology ( Hons)*

| System            | Part/Semester | Paper      | Module/Unit | Topic                                    |
|-------------------|---------------|------------|-------------|--|
| Annual<br>(1+1+1) | Part-III      | Paper-V    | 1 & 2       | Social and Sociological Thought in India |
|                   |               | Paper-VI   | 1&2         | Indian Social Institution                |
|                   |               | Paper-VII  | 1&2         | Indian Social Structure and Process      |
|                   |               | Paper-VIII | 1           | Contemporary Indian Social Problems      |
| CBCS              | Semester-1    | CC-2       | 1&2         | Sociology of India-I                     |
|                   | Semester-2    | CC-4       | 1&2         | Sociology of India-II                    |
|                   | Semester-6    | DSE-6-A(4) | 1&2         | Agrarian Sociology                       |

Annual System  
<https://caluniv.ac.in/syllabus/sociology.pdf>

CBCS  
<https://www.caluniv.ac.in/news/Draft-Sociology-18-4-18.pdf>

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### Syllabus reflecting Indian Knowledge System

#### Urdu ( Hons)

| System         | Part/Semester  | Paper      | Module/Unit | Topic   |
|----------------|----------------|------------|-------------|---|
| Annual (1+1+1) | Part-II (Hons) | Paper-III  | 4&5         | Basic Social System And Social Behaviour Before And After Division Of India |
| CBCS           | Semester-1     | CC-1       | 1           | Social And Cultural Changes After Entering Arab Endeavours                  |
|                | Semester-2     | CC-3       | 2           | Social Behaviour And Economical Condition                                   |
|                | Semester-3     | CC-5       | 3           | Improvement Of Multi Cultural Impact And Contribution Of Mughal Empire      |
|                | Semester - 5   | DSE - B(2) | 1 & 2       | Social & Cultural Issues And Problems During British Period.                |

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*Syllabus containing course & curriculum  
reflecting Indian Knowledge System*



### Geography (Hons.)

| System | Year/<br>Semester  | Paper  | Section  | Topic  |
|--------|--------------------|--|----------|--|
| Annual | Part II<br>(Hons.) | Module 7<br>Social, Cultural<br>and Political<br>Geography (Th.) | Unit III | 3.2 Cultural groups with reference to<br>India: ethnic, linguistic and religious   |
| CBCS   | Semester<br>V      | DSE-B<br>Cultural and<br>Settlement<br>Geography (Th.)           | Unit I   | 6.Cultural regions of India  |
|        |                    | DSE-B<br>Social<br>Geography (Th.)                               | Unit I   | 4. Basis of social region formation;<br>Evolution of social-cultural regions of<br>India<br>5. Peopling process of India:<br>Technology and occupational change.<br>Migration<br>6. Social groups, social behaviour and<br>contemporary social environmental<br>issues with special reference to India |
|        | Semester<br>VI     | CC-6-13<br>Evolution of<br>Geographical<br>Thought (Th.)         | Unit I   | 1. Development of pre-modern<br>Geography: Contributions of Greek,<br>Chinese, and Indian geographers  |

  
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## Yoga for fitness and Karate for self defense



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## Incubation Centre

### Skill Enhancement and Incubation Cell



“

A creative life is an amplified life. It's a bigger life, a happier life, an expanded life, and a hell of a lot more interesting life.

—

Elizabeth Gilbert  
American author, best known for "Eat, Pray, Love."

#### About the Cell:

Even a few years ago, education was something that was only pursued if one so desired. The belief that "education is the key to success" became increasingly prevalent over time. Many people feel that obtaining a college degree is the only way to have a successful job, but this is not the case. Many extracurricular hobbies may prove useful while considering employment options. Such possibilities must be given to all students so that they recognise their own inner capacity and so choose a suitable job.

The cell stated its journey from the academic session 2018-19.

For details: <https://www.govtgirlsekalpur.com/incubation.php>

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## Heritage Study Centre

**For details:** [Welcome to Official Website of Government Girls' General Degree College, Ekbalpur, Kolkata | Academics | Heritage Study Centre \(govtgirlsekbalpur.com\)](http://www.govtgirlsekbalpur.com)

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## Calcutta 23: Celebrating Diversity



**FRIDAY, 29TH NOVEMBER, 2019**

| Time           | Event  |
|----------------|--|
| 8.30 - 10.30   | Neighborhood Walk organized by KYN and Break free Trails   |
| 11.00 - 12.30  | Inaugural program by GGGDC, Inaugurated by Janab Firhad Hakim Mayor of Kolkata & Honorable Minister, Urban Development & Municipal Affairs, Govt. of West Bengal.                        |
| 1.00 - 2.00pm  | Poster Competition.  |
| 2.00 - 4.00 pm | Film Screening.  |
| 4.00 - 5.00 pm | Kabir Katha : Discussion by Samik Bandopadhyay & Jaya Mitra.   |
| 5.00 - 8.00pm  | Cultural program:<br>• Cultural program by Students and Teachers of GGGDC<br>• Musical performance (Moushumi Bhowmik & Satyaki Banerjee)<br>• Dastanagi in Urdu (Nadeem Shah Soharwardy) |

**SATURDAY, 30TH NOVEMBER, 2019**

| Time            | Event   |
|-----------------|---|
| 10.00 - 12.30pm | Children's Programme : Kothokota.   |
| 12.30 - 2.30 pm | Voices of the community-Hussain Shah Park, Montinpur  |
| 3.00 - 5.00 pm  | Thanks Giving Ceremony.   |
| 5.00 - 8.00pm   | Cultural program:<br>• Cultural program by Students and Teachers of GGGDC<br>• Musical performance (Paridhi Band)<br>• Dastanagi in Bangla (Calcutta Karavan) |

A specialised Career Fair would be held on both the days.  
Art installations, wall graffiti, etc. to be made during the program

Dear Madam / Sir,

We solicit your gracious presence on the occasion of Diversity Festival, entitled Calcutta 23: Celebrating Diversity, organised jointly by Government Girls' General Degree College and Know Your Neighbour (an initiative of SNAP) on 29 and 30 November, 2019, in the College campus. Please join us to celebrate Diversity in a unique way.

Dr S S M Alquadr  
Officer-in-Charge  
Govt. Girls' General Degree College,  
Ekalpur

*S. S. M. Alquadr*  
Principal  
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### Calcutta 23: Celebrating Diversity

GOVERNMENT GIRLS' GENERAL DEGREE COLLEGE, EKBALPUR  
& KNOW YOUR NEIGHBOUR  
jointly present

# CALCUTTA 23

## Celebrating Diversity

**Thursday, 28th November 2019**  
9 am to 1 pm Harvesting Plastic- Neighbourhood Cleaning Drive

**Friday, 29th November 2019**  
8.30 to 10.30 am Neighbourhood Walk by KYN and Breakfree Trails  
11 am to 12.30 pm Inaugural Program  
Guests - Janab Firhad Hakim, Anita Agnihotri, P.B. Salim, Mr. Suresh Kumar  
1 to 2 pm Poster Competition facilitated by Subhendu Dasgupta, Dr. Koel Adhikary & Prof. Suradhuni Ghosh  
2 to 4 pm Film Screening  
4 to 5 pm Swayam, Anjali, Azad  
5 to 8 pm Kabir Katha- discussion by Samik Bandopadhyay & Joya Mitra  
Cultural program:  
• Performance by Students and Teachers of GGGDC  
• Musical performance (Moushumi Bhowmik & Satyaki Banerjee)  
• Dastaangoi in Urdu (Nadeem Shah Suhrawardy)

**Saturday, 30th November 2019**  
10 am to 12.30 pm Children's Programme Kothokota facilitated by Sudeshna Moitra and Santanil Ganguly  
12.30 to 2.30 pm Voices of the community with Swayam, Dept. of History-JU & Right Track  
3 to 4 pm Certificate Distribution  
4.30 to 8 pm Cultural program:  
• Performance by Students and Teachers of GGGDC  
• Musical performance (Paridhi Band)  
• Dastaangoi in Bangla (Calcutta Karavan)

- Career Fair will be held on 29th and 30th- from 11 am to 4 pm
- Wall painting by artists from Pavlov Hospital
- Art installations by Sufia Khatoon & Soumyadeep Roy

**ENTRY TO ALL EVENTS IS FREE AND OPEN TO ALL!**

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### Language Centre



## GOVERNMENT GIRLS' GENERAL DEGREE COLLEGE

### ROKEYA SAKHAWAT HOSSAIN CENTRE FOR COMPARATIVE LANGUAGE AND LITERATURE

#### **Introduction :**

Rokeya Sakhawat Hossain Centre for Comparative Languages and Literature is a study and research centre under Government Girls' General Degree College, Kolkata, which was founded to explore and develop the infinite connection between diverse areas of various language departments of our college. Such as: Arabic, Bengali, English, Hindi, Persian and Urdu.

★The official proposal/ letter of intimation for inauguration of this centre had been despatched from college office to The Higher Education Department, Government of West Bengal on 02.12.2019 vide memo no. 1580A/ GGGDC.

**For details:** [Welcome to Official Website of Government Girls' General Degree College, Ekbalpur, Kolkata | Academics | Language Centre \(govtgirlsekbalpur.com\)](http://www.govtgirlsekbalpur.com)

  
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## MOU



INDIA NON JUDICIAL 49AB 244807

### MEMORANDUM OF UNDERSTANDING (MOU)

BETWEEN  
HIRAL MAZUMDAR MEMORIAL COLLEGE FOR WOMEN  
JADUNATH SARKARBOHUA LANE, BANSHINESWAR, KOLKATA - 700035  
AND  
GOVERNMENT GIRLS' GENERAL DEGREE COLLEGE  
7, MAYURBHANJ ROAD, EKHALPUR, KOLKATA - 700 023

This agreement is entered into by Hiral Mazumdar Memorial College for Women (HMMCW), Dakshineswar, Kolkata - 700035, West Bengal affiliated under West Bengal State University and Government Girls' General Degree College (GGGDC), 7, Mayurbhanj Road, Ekhalpur, Kolkata - 700023, West Bengal affiliated under University of Calcutta and effective as of 18<sup>th</sup> November of 2021.

#### HMMCW

Hiral Mazumdar Memorial College For Women (HMMCW) was established on 10.08.1959 following the idea of imparting education to the women folk of the area. The campus of the college is one aspect that sets it apart from other colleges in the region. The green open space in the college and adjacent pond act like an oasis of the college. The staff and the students of the college make it vibrant and retain a strong sense of community and openness of the campus creates a relaxed ambience. The college imbues the ideals of discipline, determination and dedication as basic principles that would not only help students to spread the wings but also gradually guide us to the path of perfection with honesty, integrity and humility. The mission of the college is to educate, empower and emancipate in compliance with the needs of the society. It is accredited as A++ grade college in 2016 by NAAC, we are now striving through the path of excellence and to elevate ourselves further in the path of prosperity.

At present, the college is offering 18 (eighteen) Honours courses and 27 (twenty seven) General courses under the UG Course Curriculum of West Bengal State University to cater to the needs of approximately 1300 (One thousand three Hundred) strong student community.

AND  
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#### GGGDC

Education has been considered as a key instrument for social change and progression. The present decade is marked by an increasing awareness of the necessity of women's empowerment, for it plays an important role in the development of a country. Higher education for women has become a policy agenda for many developing nations including India. Government of West Bengal has also taken various steps to enhance women's position by means of education. Establishment of this Government College for Girls in Ekhalpur, Kolkata is a part of this endeavour. The college is directed to spread and improve the quality of education among all sections of women in the society. In other words, this college visualizes the academic and intellectual development, moral uplift, social commitment, cultural refinement of the upcoming generation. To reach the vision following are the basic plans:

- To cultivate quality and excellence in education.
  - To boost scientific and technological temperament.
  - To organize Seminars and Workshops for cultivation of knowledge, skills and discipline among the students.
  - To ensure overall personality development of the students through extra-curricular activities.
  - To provide opportunities for improvement of girls from educationally and economically marginalized section of the society.
- The college began its academic journey on 28<sup>th</sup> January 2016 with thirteen departments. The academic session started with one hundred and fifteen students in both Arts and Science streams. To create awareness, conviction and commitment among the students towards social and moral values, the college arranges for compulsory Value Education classes whose lectures are delivered by eminent personalities from various fields.

The purpose of this Agreement is to develop academic and educational collaboration through resource sharing, seminars, talks and teachers / students exchange / publications between the two identified departments of two institutions and strengthening professional relations between the institutes.

Both the colleges undertake to promote and develop cooperation with various activities such as those listed below on the basis of equality and reciprocity:

1. Students of both institutions will have equal access to quality enhancement programmes organised by both the institutions.
2. It is understood that implementation of any of the type of cooperation stated in clause 1 and mentioned above shall depend upon the availability of resources and financial support at the institutions concerned.
3. This agreement shall remain in force for three years if either institution does not terminate it by a minimum of a six month's written notification to the other institution.
4. This agreement may at any time be revised or modified, by mutual consent, within the period agreed upon by way of clause 1 mentioned above.

#### Scope

This Memorandum of Understanding witnesses that the institutions wish to explore the possibility of collaborating together in various ways including:

- a) Exchange of knowledge;
- b) Taking Online / Offline classes by faculty members of the Departments of Chemistry, Commerce, Geography, History, Sociology, Edu, English, etc. after mutual decision by both the colleges;
- c) Development of joint research activities; while implementing the matters related to research, Research Scholars and Research Guides of both institutions will follow the rules and regulations of Government and the affiliating University as and where applicable;
- d) To organize joint seminars and symposia in India. HMMCW & GGGDC will collaborate in designing and organizing seminars, training program, symposia for the participants of both the colleges and also neighbouring colleges including those belonging to other universities;
- e) To collaborate in Library Arrangement Programme.

The above collaboration will include all the Departments, Faculties of both HMMCW and GGGDC.

#### Terms of MOU

The terms of Understanding for each specific activity implemented under this agreement shall be mutually discussed agreed upon in writing by both parties prior to the initiation of that activity. Such agreements will have full regard to issues of quality assurance and budgetary matters and may be subject to legal contracts as agreed by the parties.

This MOU shall be valid for period of three years and it may be renewed subject to mutually agreed terms and conditions. The MOU will be jointly reviewed by Hiral Mazumdar Memorial College for Women (HMMCW) and Government Girls' General Degree College (GGGDC) as mutually agreed from time to time.

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*Signature*  
Principal  
Government Girls' General  
Degree College  
Koikata





# GOVERNMENT GIRLS' GENERAL DEGREE COLLEGE

7, Mayurbhanj Road, Kolkata - 700023

Telephone No. : 033-2448-1160, 033-2448-1171

E-mail: [gggdc.coll@gmail.com](mailto:gggdc.coll@gmail.com)

Website: [www.govtgirlsekbalpur.com](http://www.govtgirlsekbalpur.com)

Ref. No. : .....

Date:.....

## MOU

In Witness thereof, the parties here to have executed this MOU as of the last written date below.

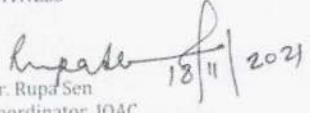
For  
Hiralal Mazumdar Memorial College For Women

  
Name: Dr. Soma Ghosh  
Position: Principal & Secretary  
Date: 18/11/2021  
Seal: **Hiralal Mazumdar Memorial College  
For Women  
Dakshineswar, Kolkata - 700 035**


For  
Government Girls' General Degree College

  
Name: Dr. Syeda Shariqatui Moula Alquadri  
Position: Principal  
Date: 18/11/2021  
Seal: **Principal  
Government Girls' General  
Degree College  
Kolkata**

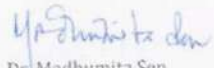
WITNESS

  
Dr. Rupa Sen  
Coordinator, IQAC  
Hiralal Mazumdar Memorial College For Women  
Kolkata - 700035  
**IQAC CO-ordinator  
Hiralal Mazumdar Memorial College  
For Women  
Dakshineswar, Kolkata - 700 035**

WITNESS

  
Coordinator, IQAC  
Government Girls' General Degree College  
Kolkata - 700092

WITNESS

  
Dr. Madhumita Sen  
Government Nominee, Governing Body  
Hiralal Mazumdar Memorial College For Women  
Kolkata - 700035  
**Member  
Governing Body  
Hiralal Mazumdar Memorial College  
for Women  
Dakshineswar, Kolkata - 700 035**

  
Principal  
Government Girls' General  
Degree College  
Kolkata



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### Collaboration



Somak Raychaudhury  
Director

अंतर-विश्वविद्यालय केंद्र : खगोलविज्ञान और खगोलभौतिकी  
Inter-University Centre for Astronomy and Astrophysics  
An Autonomous Institution of the University Grants Commission

**IUCAA**


**Endorsement from the Head of the Institution**

Project Title:

**Broadband spectral-timing studies of X-ray binaries using AstroSat and NICER**

1. Certified that the Institute welcomes participation of **Prof. Ranjeev Misra, IUCAA, Pune**, as a Principal Co- Investigator for the project submitted to DST with title "Broadband spectral-timing studies of X-ray binaries using AstroSat and NICER" whose Principal Investigator is Dr. Soma Mandal, Government Girls' General Degree College, Kolkata.  
  
It is understood that in the unforeseen event of discontinuance by the Principal Investigator, the Principal Co-investigator will assume the responsibility of the fruitful completion of the project (with due information to SERB). If the Principal Co-Investigator is also unable to undertake the responsibility, then the Co-investigator may assume the responsibility of the fruitful completion of the project (with due information to SERB).
2. In such a situation, it is certified that the equipment and other basic facilities as enumerated in Section 420 and such other administrative facilities as per terms and conditions of the grant, will be extended to the Investigator(s) throughout the duration of the project and the institute assumes to undertake the financial and other management responsibilities of the project.

Date: \_\_\_\_\_  
Place: \_\_\_\_\_

  
Name and Signature of Head of Institution  
**SOMAK RAYCHAUDHURY**  
Director  
Inter-University Centre for  
Astronomy and Astrophysics  
Pune - 411 007.

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**Mailing Address :** IUCAA, Post Bag 4, Ganeshkhind, Pune - 411 007, India.  
**Location :** Meghnad Saha Road, Savitribai Phule Pune University Campus, Pune - 411 007.  
**Phone :** +91 (20) 25604 100, **Fax :** +91 (20) 25604 698 (Direct), 25604 699 (General)  
**E-mail :** [somak@iucaa.in](mailto:somak@iucaa.in), **URL :** <http://www.iucaa.in/>

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Ref. No. : .....

Date:.....

## Collaboration (Research Project)

FILE NO. CRG/2019/001112  
**SCIENCE & ENGINEERING RESEARCH BOARD(SERB)**  
 (A statutory body of the Department of Science & Technology, Government of India)  
 5 & 5A, Lower Ground Floor  
 Vasant Square Mall  
 Plot No. A, Community Centre  
 Sector-B, Pocket-5, Vasant Kunj  
 New Delhi-110076

Dated: 20-Dec-2019

### ORDER

Subject: Financial Sanction of the research project titled "Broadband spectral-timing studies of X-ray binaries using AstroSat and NICER" under the guidance of Dr. Soma Mandal, Physics, Government Girls' General Degree College, 7, mayurbhanje road, kolkata, Kolkata, West bengal-700023 and by Prof. Ranjeev Misra, Professor, Astrophysics, Inter-University Centre For Astronomy And Astrophysics(IUCAA) - Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of Rs. 638000/- (Rs. Six Lakh Thirty Eight Thousand Only) with break-up of Rs. 200000/- under Capital (Non-recurring) head and Rs. 438000/- under General (Recurring) head for a duration of 36 months. The items of expenditure for which the total allocation of Rs. 638000/- has been approved are given below.

| S. No     | Head   | Total (in Rs.)                 |
|-----------|--|--------------------------------|
| <b>A</b>  | <b>Non-recurring</b>   |                                |
| 1         | Equipment<br>-> Mobile workstation and Laptop  | 200000                         |
| <b>A'</b> | <b>Total (Non-Recurring)</b>   | <b>200000</b>                  |
| <b>B</b>  | <b>Recurring Items</b>   |                                |
| 1         | Recurring - I : (Manpower)<br>Recurring - II : ( Consumables, Travel, Contingencies)<br>Recurring - III : Scientific Social Responsibility | 0<br>320000                    |
| 2         | Recurring - IV : (Overhead Charges)  | 60000                          |
| <b>B'</b> | <b>Total (Recurring)</b>   | <b>58000</b>                   |
| <b>C</b>  | <b>Total cost of the project (A + B)</b>   | <b>438000</b><br><b>638000</b> |

*Signature*  
 Principal  
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Date:.....

## Linkage @ Moulana Azad College



*Oljanda.*  
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Government Girls' General  
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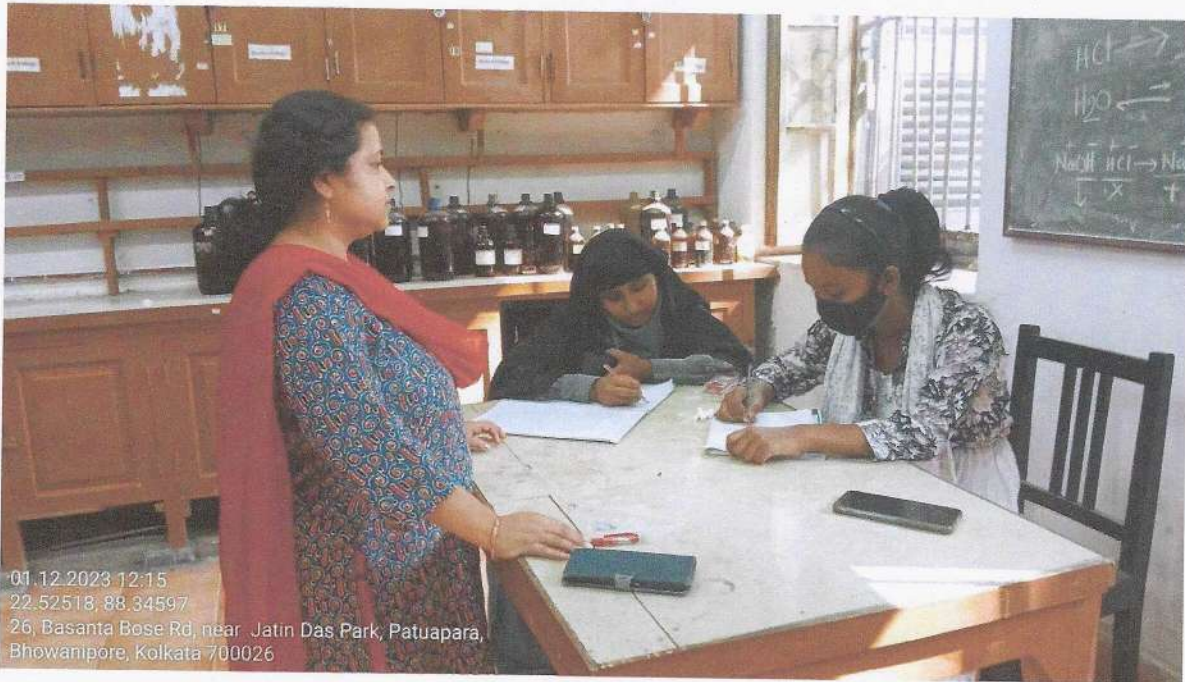
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Website: [www.govtgirlsekalpur.com](http://www.govtgirlsekalpur.com)

Ref. No. : .....

Date:.....

## Linkage @ Asutosh College



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