



Government of West Bengal
Government General Degree College, Kalna I
Muragacha, Medgachi, Purba Bardhaman-713405
Website : www.ggdck.ac.in, E-mail : govt.collegekalna1@gmail.com
Office of the Principal

Department of Mathematics

Notice

No.12/semi/2021

Date:11.09.2021

It is notified that Maulana Azad College, Kolkata and Government General Degree College, Kalna-1 jointly arrange a webinar on “**Glimpses of Mathematics in Ancient India**” on 18th September, 2021 at 5.00 pm. The Lectures will be delivered by **Dr. Parthasarathi Mukhopadhyay**, Associate Professor, Department of Mathematics, Ramkrishna Mission Residential College, Narendrapur, Kolkata.

So, all the students and faculty members are hereby requested to be present in the webinar.

Convener
Head of the Department,
Mathematics



Dr.
Principal
Government General Degree College
Kalna-I



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Maulana Azad College, Kolkata
 &
Government General Degree College, Kalna - I



Jointly Present
WEBINAR
 on

Glimpses of Mathematics in Ancient India



18th September, 2021



5:00 PM (IST)



Dr. Parthasarathi Mukhopadhyay

Associate Professor, Dept. of Mathematics
 Ramakrishna Mission Residential College (Autn.)
 Narendrapur, Kolkata

JOIN US ON



E-Certificate will be provided on
 Successful Participation

[Click here for Online Registration\(Free\)](#)

Principal,
 Maulana Azad College

Principal,
 Government General
 Degree College, Kalna - I

Head, Dept. of Mathematics
 Maulana Azad College

Head, Dept. of Mathematics
 Government General
 Degree College, Kalna - I



Dr.
 Principal
 Government General Degree College
 Kalna-I

Programme Schedule of the Webinar

18.09.2021

Programme Schedule

| | | |
|-------------------|---|--|
| 05:00 p.m | Opening | Dr. Nanda Das |
| 05:04 p.m. | Inauguration | Dr. Subhasis Dutta |
| 05:05 p.m. | Welcome Address | Prof. (Dr.) Krishnendu Dutta Principal Government General Degree College, Kalna-I |
| 05:09 p.m. | Lecture on “Glimpses Of Mathematics In Ancient India” | Dr. Nanda Das. |
| 07:10 p.m. | Vote of thanks | Dr. Mani Sankar Mandal HoD, Department of Mathematics, GGDC, Kalna-I |



Dutta
Principal
Government General Degree College
Kalna-I

Report On Glimpse Of Mathematics In Ancient India

The Department of Mathematics in association with IQAC, GGDC, Kalna-I and Department of Mathematics Maulana Azad College, Kolkata jointly organized a webinar on “**Glimpse of Mathematics in Ancient India**”. The webinar was held on 18th September, 2021 through online platform (ZOOM, live streamed through dedicated College YouTube channel). Prof. Parthasarathi Mukhopadhyay, Dept. of Mathematics, Ramrishna Mission Residential College (Autn.), Narendrapur, Kolkata was the key speaker for this webinar. More than 100 participants from different academic institutes, Universities, Colleges and Schools participated in this webinar.

The webinar started with an inaugural speech by Prof. (Dr.) Krishnendu Dutta, Principal, GGDC, Kalna-I which set the webinar in motion. Our honourable Chief Guest Dr. Parthasarathi Mukhopadhyay gave an encouraging and informative talk, about the glories of ancient Indian mathematics which brought out the true insight of the day’s theme.

Finally, Dr. Mani Shankar Mandal, Head, Department of Mathematics, GGDC, Kalna-1, extended a vote of thanks to the Principals, the honourable speaker, the host, the organizer and other participants for their presence and valuable contribution to the webinar.



D.H.
Principal
Government General Degree College
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Glimpses of the Programme



**GLIMPSES OF
Ancient Indian Mathematics**



Dr. Parthasarathi Mukhopadhyay
Associate Professor, Dept. of Mathematics
Ramakrishna Mission Residential College (Autn.),
Narendrapur, Kolkata, West Bengal



zoom



circbhacatarairah samantaratrah ciliryanastiryamoham karantim krtva sesham dvedha vit
 viparyayet anacopadachyat khandamkrpema tatsantiprayet taya nirhantah utkah

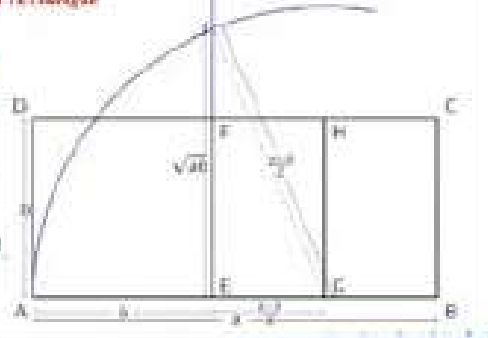


শিখচতুর্ভুজ সাচতুর্ভুজ চিত্রীকৃতিক্রম্যামনীর কালীর কৃত্য শেষত্বে যোগ্য বিতজ্য
 বিপর্যয়তেনানোপদাচ্যত কখন্দামক্রপেণ তস্যান্তিপ্ৰায়ত তয়া নিরহান্তহ উত্কাহ।

To construct a square equal in area to a given rectangle

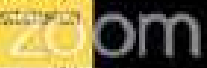
A. Seidenberg (The Origin of Mathematics, 1978)
 "This is entirely in the spirit of The Elements
 (of Euclid), Book II, indeed, I would say it's more
 in the spirit of Book II than Book II itself."

- Exact construction (no measurement or approximation) of \sqrt{ab} .
- Use of Baudhāyana–Pythagoras Theorem.
- Geometric formulation of $ab = (\frac{a+b}{2})^2 - (\frac{a-b}{2})^2$.



Baudhāyana Sulba (1.54)

"To transform the rectangle [ABCD] into a square: mark out [AE] of length b units along [AB] (and complete the square [AEFH]). bisect the remainder [EB] (call [G] the mid-point of [EB]). With the new point [G] (as centre), draw an arc (of radius [AG]) which intersects the extension of the line [EF] (at [I]). The segment [EI] gives the desired side."



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 Government General Degree College
 Kalna-I

Programme: Webinar on "Glimpses of Mathematics in Ancient India"

Date: 18.09.2021

Platform: Google Meet

Attendance:

| Timestamp | Name of the Participants | Designation | Dept. | Semester | Email id |
|---------------------|--------------------------|-------------|-------------|----------|---|
| 18/09/2021 16:48:39 | SUSHOVAN LALA | Asst. Prof | Physics | - | sushovan.lala@ggdck.ac.in |
| 18/09/2021 16:48:50 | SWAPNADEEP MONDAL | Asst. Prof | Chemistry | - | swapnadeep.mondal@ggdck.ac.in |
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| 18/09/2021 16:50:16 | TANMAY DAS | Asst. Prof | Physics | - | tanmay.das@ggdck.ac.in |
| 18/09/2021 16:50:49 | RUPSA KHATUN | Student | Chemistry | I | rupsa.khatun.21sh2002@ggdck.ac.in |
| 18/09/2021 16:51:00 | TANMOY MITRA | Asst. Prof | Mathematics | - | tanmoy.mitra@ggdck.ac.in |
| 18/09/2021 16:52:07 | DIBAKAR MONDAL | Asst. Prof | Mathematics | - | dibakar.mondal@ggdck.ac.in |
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| 18/09/2021 16:54:44 | MANI SHANKAR MANDAL | Asst. Prof | Mathematics | - | mani.shankar.mandal@ggdck.ac.in |
| 18/09/2021 16:55:12 | PARNAJYOTI KARMAKAR | Asst. Prof | Chemistry | - | parnajyoti.karmakar@ggdck.ac.in |
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| 18/09/2021 16:59:42 | ABHI KOLEY | Student | Physics | I | abhi.koley.21sh1007@ggdck.ac.in |
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| 18/09/2021 17:05:35 | SOUMYAJIT PAL | Student | Physics | III | soumyajit.pal.20sh14@ggdck.ac.in |
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