



PG Department of Pure Mathematics

PROSPECTUS 2022-23

According to choice Based Credit system

BANGABASI EVENING COLLEGE

(NAACRE-ACCREDITED B+ in December, 2016)

19, Rajkumar Chakraborty Sarani Kolkata -
700 009



Preface

Post Graduate Department of Mathematics welcome to our glorious institution Bangabasi Evening College (NAAC reaccredited as B+), which is located at 19, Rajkumar Chakraborty Sarani, Kolkata - 700009. The historical institution, Bangabasi College emerged from Bangabasi School, founded by Acharya Girish Chandra Bose in 1885 in a rented house at Bowbazar Street with just 6 teachers and 12 students. The College shifted to its present building in the year 1903. The College derived its name from the then patriotic newspaper, 'Bangabasi'. The College is located in the vicinity of Sealdah Station in Central Kolkata giving easy access to students coming from rural, semi-urban and urban areas. Bangabasi Evening College was originally an integral part of Bangabasi College, which was founded by the great educationist and philanthropist Acharya Girish Chandra Bose. By leaving aside the lucrative job he took upon himself the tough job of educating his poor, illiterate

'Bangabasi College' (1887 AD.), with the sole objective of promoted the cause of education in Bengal during the nineteenth century Renaissance in India. After the independence of India in 1947 A.D. there was an influx of young talents from the then East Bengal (now Bangladesh) and elsewhere. In order to accommodate them as well as to ease the tremendous pressure of admission to the College three new shifts like Morning, Evening and Commerce had to be opened. Bangabasi Evening section was founded by Sri Prasanta Kumar Bose, the noted educationist of Bengal and the illustrious son of Acharya Girish Chandra Bose in 1940 for the needy working students. In 1944 he introduced the Arts and Science faculties in the Evening section. Through the introduction of the 'Phase Reduction Scheme' of the University Grants Commission the separate existence of Bangabasi Evening College was officially recognized on 11 April, 1965 under a separate Governing Body. It is located at the heart of the megacity Kolkata. It is surrounded by 4 major roads of Kolkata, namely, Acharyya Prafulla Chandra Road at the East side, Raja Rammohan Sarani at the West, Mahatma Gandhi Road at the North and at the South side Bipin Bihari Ganguly Street is located. Bangabasi Evening College is a renowned educational institution with rich cultural tradition in its background. The College spreads its academic umbrella in various new directions to accommodate, nurture and stimulate the mediocre as well as bright students of the cross section of the society. To give a systematic account of the various achievements of the College. During its journey of 54 years, Bangabasi Evening College has encouraged the vision of distinction through continuous improvement of the teaching - learning process helped by research and all other academic pursuits. The college is proud of its students who emerge as achievers in diverse spheres in spite of limitations. The relationship between teachers and students is one of our greatest strengths. The teachers are totally dedicated to the interest of students motivating them to do their best in their chosen fields. With generous help and encouragement of the Governing Body, administrative and financial assistance from the Department of Higher Education, Government of West Bengal and constant cooperation from all the stakeholders, Bangabasi Evening College has been playing a major role in contributing to the cause of weaker and poorer sections in the country, producing empowered and enlightened individuals.



Dr Sanjib Chattopadhyay, Principal

It is appropriate to consider how it has grown in terms of teaching, research, infrastructure and administrative improvements. The College has reached its high level of excellence due to the dedicated team work of the teaching, administrative, assisting staff members, also getting support and encouragement from the Governing Body and above all administrative and financial support from the Government of West Bengal. To commemorate the glorious past, the committee resolved that a valuable volume would be published highlighting every aspect and achievement of the institution. Prof. Prasanta Kumar Bose, the illustrious son of Acharya Girish Chandra Bose was the founder Principal of Bangabasi Evening College.

ABOUT THE DEPARTMENT of PG Mathematics

Bangabasi Evening College has introduced Post Graduate Department of Mathematics from 2015-2016 session, as regular course in M.Sc under University of Calcutta. There are many opportunities for students to work with our faculty to improve their quality of learning. Our permanent and guest faculty members are amply efficient and also affectionate in solving the problems of the students. Many teachers are engaged in active research funded by UGC and DST research projects in specialized areas. PhD works are also performed here in Mathematics Department. Some UGC and DST seminars have recently been organized in Mathematics department.

The department of Mathematics started teaching its Post Graduate Course from 2015 with academic autonomy under University of Calcutta (Self Financing Basis), with constant encouragement and support

from present Principal Dr. Sanjib Chattopadhyay. The CBCS syllabus of this course was specially designed by University of Calcutta in 2018. Well known and reputed teachers have delivered lectures and taught for the PG course.



Undoubtedly it is true that the total system of education has been interposed after the declaration of Lock- down phase to prevent COVID 19 in the year of 2020. During the lockdown phase regular classes were taken by the teacher through college website. Several National and International Webinar lectures were organized by the college. There was a persistent notion or obsession that education is never possible

without chalk and talk, though now we are travelling upon the ground of hard reality that uninterrupted classroom education of so many people in our country according to demand and supply would never be

possible, especially in case of natural calamity prone areas or in contagious disease prevalent areas. We would have to choice between Conventionalism and Activism, which one would be more suitable for us.

Conventionalism means classroom education and activism means modern system of e-learning. Every idea has got its own limitations. We must conclude that no one is self-sufficient, one has to depend on others. The combination of both will



make the education system more meaningful.

PG Math Department in collaboration with Gurudas College has organized a two days international webinar from 22.6.20 to 23.6.20. Dr. Neil Hindman, Emeritus Professor of Mathematics, Harvard University, delivered lecture on Topology and its interaction with other fields of Mathematics (on Stone-Čech compactification). Prof Atasi Debray, Dept of Pure Math, CU and Dr Supriya Mukherjee, HoD, Dept. of Mathematics, Gurudas college along with students and teachers of both the colleges were present in the webinar. Also, Prof. M. AKBARI TOOTKABONI, Professor, Department of Pure Mathematics, UNIVERSITY OF GUILAN, RASHT, IRAN, delivered lecture on the same broad topic (on "ULTRAFILTERS ON σ -ALGEBRA").



DST Seminar with delegates of different universities and colleges

BANGABASI EVENING COLLEGE

(Affiliated to the University of Calcutta)

DEPARTMENT OF MATHEMATICS (M. Sc in Pure Mathematics)

Welcome to Department of Mathematics (PG)

Bangabasi Evening College, Affiliated to University of Calcutta

19, Rajkumar Chakraborty Sarani, Kolkata-700009, West Bengal

Tel: (033) 23510304, (033) 23607575

Website: www.bangabasievening.edu.in

SYLLABUS & COURSE STRUCTURE

The following choices are given for CBCC subjects and Elective Paper to be opted by the students of our department:

CBCC A - Statistics

CBCC B - Applied Mathematics

Elective I: 104: Advanced Complex Analysis I, 105: Advanced Riemannian Manifold I,

Elective II: 201: Modules and Rings I, 204: Rings of Continuous Functions I.

For detailed Syllabus and course structure please visit the following link:

https://www.caluniv.ac.in/academic/departement/PureMath/PM_Syllabus_18.pdf

P.G. FACULTY MEMBERS

Permanent Faculty

Sl.No.	Name of the teachers	Designation	Association
1.	Dr. Banamali Roy (HoD & PG Course Coordinator) (9239031580)	Assistant Professor	Bangabasi Evening College
2.	Dr. Mahendra Rong Controller of Exam (9674335554)	Associate Professor	Bangabasi Evening College
3	Mr. Surya Bahadur Subba	Assistant Professor	Bangabasi Evening College
4	Dr. Sagarmoy Bag	State Aided College Teacher (SACT)	Bangabasi Evening College
5	Dr. Sudip Majumdar	State Aided College Teacher (SACT)	Bangabasi Evening College
6	Mr. Achintya Singha	State Aided College Teacher (SACT)	Bangabasi Evening College

Visiting/Guest Faculty

Sl No,	Name of the teachers	Designation	Association
1	Prof. D. K. Ganguly	Visiting Professor	University of Calcutta
2	Prof. Manjusha Majumder	Visiting Professor	University of Calcutta
3	Prof. S. K. Sardar	Visiting Professor	Jadavpur University
4	Prof. M. C. Mukherjee	Guest Faculty	Bangabasi Evening College
5	Prof. Gopal Ghosh	Guest Faculty	Bangabasi Evening College
6	Dr. Rahul Banerjee	Visiting Professor	St. Pauls C. M. College
7	Dr. S. Kanjilal	Visiting Professor	St. Pauls C. M. College
8	Prof. M. Maity	Visiting Professor	Vidysagar University
9	Prof. Mridula Kanoria	Visiting Professor	University of Calcutta
10	Dr. S. De	Visiting Professor	University of Calcutta
11	Dr. U. K. Pahari	Visiting Professor	Netaji Nagar Day College
12	Dr. B. Mandal	Visiting Professor	Surendranath College
13	Dr. Pradip Majhi	Visiting Professor	University of Calcutta
14	Dr. G. C. Shit	Visiting Professor	Jadavpur University
15	Dr. B. Sau	Visiting Professor	Jadavpur University



EDUCATIONAL TOUR 2018-19



UGC SPONSORED NATIONAL SEMINAR 2016

EDUCATIONAL TOUR 2018-19



EDUCATIONAL TOUR 2018-19

INFRASTRUCTURE OF THE DEPARTMENT

- Departmental Library
- ICT facility
- Well-equipped Computer Laboratory
- Wi-Fi zone with Internet Facility
- LAN connection
- NPTEL Local Chapter
- Book Bank Facilities
- E-Book
- National Digital Library Membership for the students

EQUIPMENTS & LAB SOFTWARES

- Desktops and Laptops
- LCD Projector, Air Conditioner
- Photocopy (Xerox) Machine,
- Laser Printer, Colour Laser Printer, Scanner
- White Marker Board
- Notice Board for Students, Teachers, PG Office
- WinEdit / MikTex/ Texworksetc. (Software)

STUDENTS' SUPPORT

- National and Departmental Seminar
- Convocation
- Special PG classes in Puja vacation and Summer Recess.
- Scholarship and Award for the Meritorious Students
- Educational Tour for all students



DST Sponsored National Seminar of PG Math , Professor RS Kulkarni, Former Professor and Director of Harish Chandra Research Institute on the dias



UGC SPONSORED NATIONAL SEMINAR 2016



DST Sponsored National Seminar, Professor RS Kulkarni, Former Professor and Director of Harish Chandra Research Institute (Right)

Details of the Intake of PG Courses under University of Calcutta

Name of the PG Course	Year of Commencement	Total Intake approved by CU	UR	SC	ST	OBC-A	OBC-B
Mathematics	2015	26	16	5	1	2	2

Eligibility Criteria



DST Sponsored National Seminar, Professor RS Kulkarni, Former Professor and Director of Harish Chandra Research Institute with the PG Math students.

1. Qualifying marks in Honours Subjects (%) for CU Candidates (Home University):
General/UR Category- 45 % marks in Mathematics Honours.
2. Qualifying marks in Honours Subjects (%) for CU Candidates (Home University):
Reserved Category (SC and ST)- 40 % marks in Mathematics Honours.
3. Qualifying marks in Honours Subjects (%) for Other University Candidates (Non-Home University):
General/UR Category- 45 % marks in Mathematics Honours.
4. Qualifying marks in Honours Subjects (%) for Other University Candidates (Non-Home University):
Reserved Category (SC and ST)- 40 % marks in Mathematics Honours.



Prof. (Dr.) Sonali Chakravarti Banerjee, the Hon'ble Vice Chancellor, C.U., and Prof (Dr). Asish Chattopadhyay, the Hon'ble. Pro-Vice Chancellor (Academic), C.U. bestowing certificates to the MSc Mathematics Students (Session 2015-17, 2016-18, 2017-19) in the Certificate Distribution Ceremony on 26th August, 2022 from 9.00 AM to 3.00 PM at Calcutta University Institute Hall, 7, Bankim Chatterjee St, College Square.

Fees Structure

Amount of Fees to be paid at the time of admission for each course: 16500/-

Amount of Fees to be paid Semester wise for each course:

Second Semester Fee : 11,000/- Third Semester Fee: 16,500/-

Fourth Semester Fee : 11,000/-

Fees/ Charges	For the Session 2022-2023		For the Session 2023-2024	
	1 st Semester	2 nd Semester	3 rd Semester	4 th Semester
Tuition Fee:	9000/-	9000/-	9000/-	9000/-
Session Charge:	1000/-	-	1000/-	-
Library Fee:	500/-	-	500/-	-
Admission Fee:	3000/-	-	3000/-	-
Exam Fee:	1500/-	1500/-	1500/-	1500/-
Lab Charges	500/-	500/-	500/-	500/-
Academic Development Fees (Seminar, Workshop, Educational tour)	1000/-		1000/-	
Total	16500/-	11000/-	16500/-	11000/-

Method of Payment:

Click at [Pay Admission/Tuition/Seat Booking Fees](#) at the top of the College webpage or directly at <https://www.onlinesbi.com/sbicollect/icollecthome.htm>

Then Accept the "Terms Used" by putting tick mark on the box and click "proceed", Then click State of Corporate / Institution "West Bengal",

Then Select Type of Corporate / Institution "Educational Institution",

Then Select Educational Institutions Name "BANGABASI EVENING COLLEGE (P.G.)",

Then Select Payment Category of admission, e.g., "ADMISSION FEES FOR PG 1ST SEM",

Then Fill up the form putting the **"ROLL NUMBER"**.

Then Select Year : **2022-23**

Confirm and pay by Challan or debit or credit Card or Net Banking