

E-mail: rdcell@bkgc.in

Phone: 033-26412341



# BIJOY KRISHNA GIRLS' COLLEGE, HOWRAH

A NCTE and NAAC accredited (B<sup>++</sup>) College

5/3, MAHATMA GANDHI ROAD, HOWRAH – 711 101

## RESEARCH & DEVELOPMENT CELL, IQAC

INTERNATIONAL CONFERENCE ON

FACETS OF BASIC SCIENCES AND APPLICATIONS (FBSA 2K25)

1. **Workshop/Seminar/Conference/Invited or Extension Lecture:** International Conference
2. **Online/Offline:** Blended mode
3. **Institutional/International/National/Regional:** All
4. **Title:** FACETS OF BASIC SCIENCES AND APPLICATIONS (FBSA 2K25)
5. **Date:** January 3 - 4, 2025
6. **Organizer(s):** RESEARCH & DEVELOPMENT CELL, IQAC and Department of Pure & Biological Sciences



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## RESEARCH & DEVELOPMENT CELL, IQAC

### 7. Funding (with proof):

INTERNATIONAL CONFERENCE  
ON  
FACETS OF BASIC SCIENCES AND APPLICATIONS (FBSA)  
JANUARY 3 – 4, 2025

To  
The Principal  
Bijoy Krishna Girls' College, Howrah

**Subject: Application for advance for FBSA-2025**

Respected Madam,

Please sanction Rs. 1,10,000 (One lakh ten thousand) for smooth functioning of the International Conference on "Facets of Basic Sciences and Applications (FBSA)" which will be held on 3 – 4<sup>th</sup> January 2025.

Thanking You

Faithfully Yours

*Sangeet Anjum 7/12/24*

*Naren Mudi 7/12/24*

(Treasures)

*Do. 7/12/24*

**Proposed Budget**

SI. No.	Items	Quantity	Amount
1	Gifts for resource person	5 x 5,000	25,000
2	Travel allowance	5 x 1,000	5,000
3	Printing		6,000
4	Kits for participants	50 x 200	10,000
5	Videography/Photography	2 Days	3,000
6	Decorations		5,000
7	Refreshment		45,000
8	Miscellaneous		11,000
	<b>Total</b>		<b>1,10,000</b>

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8. Collaborators (with proof): NA

9. Resource Persons (with invitation and acceptance letters):

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### RESEARCH & DEVELOPMENT CELL, IQAC



Ref.: BKGC/RDC/2024-26/14

Date: 07-09-2024

To  
Dr Jaydeb Sarkar  
Professor  
Indian Statistical Institute  
Statistics and Mathematics Unit  
Bangalore  
Karnataka, India

Dear Sir,

I am pleased to invite you to deliver a Lecture, as a **Keynote Speaker**, in the International Conference on "FACETS OF BASIC SCIENCE AND APPLICATION(FBSA) 2K25" organised by R&D Cell, IQAC and the departments of Mathematics, Physics, Chemistry, Computer Science, Statistics, Electronics of Bijoy Krishna Girls' College, Howrah, at College Auditorium, on 4<sup>th</sup> January, 2025 at 11 am.

Your acceptance will be highly appreciated.

  
.....  
(Dr Ruma Bhattacharyya)

(Chairperson, R&D Cell & Principal, BKGK, Howrah)

Principal / Secretary  
Bijoy Krishna Girls' College  
5/3, M.G. Road, Howrah-1

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#### RESEARCH & DEVELOPMENT CELL, IQAC



Ref.: BKGCRDC/2024-26/13

Date: 07-09-2024

To  
**Dr. Dwaipayan Chakrabarti**  
Associate Professor  
School of Chemistry  
University of Birmingham

Dear Sir,

I am pleased to invite you to deliver a Lecture, as an **Invited Speaker**, in the International Conference on "FACETS OF BASIC SCIENCES AND APPLICATIONS(FBSA) 2K25" organised by R&D Cell, IQAC and the departments of Mathematics, Physics, Chemistry, Computer Science, Statistics, Electronics of Bijoy Krishna Girls' College, Howrah, at College Auditorium, on 3<sup>rd</sup> January, 2025 at 11 am.

Your acceptance will be highly appreciated.

(Dr Ruma Bhattacharyya)

(Chairperson, R&D Cell & Principal, BKGCC, Howrah)

Principal / Secretary  
Bijoy Krishna Girls College  
5/3, M. G. Road, Howrah-1

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**RESEARCH & DEVELOPMENT CELL, IQAC**



Ref.: BKGCRDC/2024-26/12


Date: 07-09-2024

To  
**Dr Sudeshna Basu**  
Department of Mathematics and Statistics  
Loyola University Baltimore  
Maryland, USA

Dear Madam,

I am pleased to invite you to deliver a Lecture, as a **Keynote Speaker**, in the International Conference on "FACETS OF BASIC SCIENCE AND APPLICATION(FBSA) 2K25" organised by R&D Cell, IQAC and the departments of Mathematics, Physics, Chemistry, Computer Science, Statistics, Electronics of Bijoy Krishna Girls' College, Howrah, at College Auditorium, on 3<sup>rd</sup> January, 2025 at 10 am.

Your acceptance will be highly appreciated.

  
.....  
(Dr Ruma Bhattacharyya)

(Chairperson, R&D Cell & Principal, BKGCC, Howrah)

Principal / Secretary  
Bijay Krishna Girls' College  
5/3, M.G. Road, Howrah-1

Received  
S. Basu

E-mail: rdcell@bkgc.in

Phone: 033-26412341

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**RESEARCH & DEVELOPMENT CELL, IQAC**



Ref.: BKGCRDC/2024-26/32


Date: 07-09-2024

To  
**Dr Bappaditya Dey**  
Advanced Patterning Senior R&D Engineer  
IMEC, Leuven, Belgium

Dear Sir,

I am pleased to invite you to deliver a Lecture, as a **Invited Speaker**, in the International Conference on "FACETS OF BASIC SCIENCES AND APPLICATIONS(FBSA) 2K25" organised by R&D Cell, IQAC and all the science departments of Bijoy Krishna Girls' College, Howrah, at College Auditorium, on 3<sup>rd</sup> January, 2025 at 12 pm.

Your acceptance will be highly appreciated.

  
.....  
(Dr Ruma Bhattacharyya)

(Chairperson, R&D Cell & Principal, BKGCC, Howrah)

Principal / Secretary  
Bijay Krishna Girls' College  
5/3, M. G. Road, Howrah-1

Received & Accepted  
B. Dey  
11/11/2024

E-mail: rdcell@bkgc.in

Phone: 033-26412341

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#### RESEARCH & DEVELOPMENT CELL, IQAC



Ref.: BKGC/RDC/2024-26/28

Date: 05-10-2024


To  
Dr Soumitro Banerjee  
Professor,  
Department of Physical Sciences  
Indian Institute of Science Education & Research, Kolkata  
Mohanpur Campus,  
WB 741246  
India



Dear Sir,

I am pleased to invite you to deliver a Lecture, as a **Plenary Speakers**, in the International Conference on "FACETS OF BASIC SCIENCES AND APPLICATIONS(FBSA) 2K25" organised by R&D Cell, IQAC and the departments of Mathematics, Physics, Chemistry, Computer Science, Statistics, Electronics of Bijoy Krishna Girls' College, Howrah, at College Auditorium, on 4<sup>th</sup> January, 2025 at 10 am.

Your acceptance will be highly appreciated.

  
.....  
(Dr Ruma Bhattacharyya)

(Chairperson, R&D Cell & Principal, BKGC, Howrah)

Principal / Secretary  
Bijay Krishna Girls' College  
5/3 M. G. Road, Howrah-1

  
4/11/25

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**RESEARCH & DEVELOPMENT CELL, IQAC**



Ref.: BKGCRDC/2024-26/31

Date: 07-12-2024

To  
Dr Anupam Basu  
Ramanna Chair Professor,  
Jadavpur University,  
Kolkata

Dear Sir,

I am pleased to invite you as the Chief Guest of the Inaugural Session at the International Conference on "Facets of Basic Sciences and Applications (FBSA) 2K25" organised by R&D Cell, IQAC and all science departments of Bijoy Krishna Girls' College, Howrah at the College Auditorium on 3rd January 2025 at 09:30 AM.

Your kind acceptance will be deeply appreciated.

With warm regards,

  
.....  
(Dr Ruma Bhattacharyya)  
(Chairperson, R&D Cell & Principal, BKGCRDC, Howrah)

Principal / Secretary  
Bijoy Krishna Girls College  
5/3, M. G. Road, Howrah - 1



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**RESEARCH & DEVELOPMENT CELL, IQAC**



Ref.: BKGCRDC/2024-26/14/A

Date: 06-12-2024

To  
Dr Jaydeb Sarkar  
Professor  
Indian Statistical Institute  
Statistics and Mathematics Unit  
Bangalore  
Karnataka, India

Dear Sir,

We extend our heartfelt gratitude to you for accepting our invitation to deliver the Keynote Talk at the International Conference on “Facets of Basic Sciences and Applications (FBSA) 2K25” on 4<sup>th</sup> January 2025 at 11:00 AM.

We would be further honored if you could kindly chair the session for the Plenary talk by Dr Soumitro Banerjee, Professor, Indian Institute of Science Education & Research, Kolkata, scheduled on the same day at 10:00 AM.

Your kind acceptance will be deeply appreciated.

With warm regards,

Sincerely,

  
.....  
(Dr Ruma Bhattacharyya)

  
Principal / Secretary  
Bijay Krishna Girls' College  
5/3 M. G. Road, Howrah-1

(Chairperson, R&D Cell & Principal, BKGCRDC, Howrah)

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**RESEARCH & DEVELOPMENT CELL, IQAC**



Ref.: BKGCRDC/2024-26/13/A

Date: 06-12-2024

To  
**Dr. Dwaipayan Chakrabarti**  
Associate Professor  
School of Chemistry  
University of Birmingham

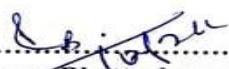
Dear Sir,

We extend our heartfelt gratitude to you for accepting our invitation to deliver the Invited Talk at the International Conference on "Facets of Basic Sciences and Applications (FBSA) 2K25" on 3rd January 2025 at 11:00 AM.

We would be further honored if you could kindly chair the session for the Keynote talk by Dr Sudeshna Basu, Loyola University Baltimore Maryland, USA on the same day at 10am.

Your kind acceptance will be deeply appreciated.

With warm regards,  
Sincerely,

  
.....  
(Dr Ruma Bhattacharyya)

(Chairperson, R&D Cell & Principal, BKGCC, Howrah)

Principal / Secretary  
Bijoy Krishna Girls College  
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Ref.: BKGCRDC/2024-26/12/A

Date: 06-12-2024

To  
Dr Sudeshna Basu  
Department of Mathematics and Statistics  
Loyola University Baltimore  
Maryland, USA

Dear Madam,

We extend our heartfelt gratitude to you for accepting our invitation to deliver the Keynote Talk at the International Conference on "Facets of Basic Sciences and Applications (FBSA) 2K25" on 3rd January 2025 at 10:00 AM.

We would be further honored if you could kindly chair the session for the invited talk by Dr. Dwaipayan Chakraborty, Associate Professor, University of Birmingham, scheduled on the same day at 11:00 AM.

Your kind acceptance will be deeply appreciated.

With warm regards,

Sincerely,

  
.....  
(Dr Ruma Bhattacharyya)

Principal / Secretary  
Bijoy Krishna Girls' College  
5/3, Mahatma Gandhi Road, Howrah-1  
(Chairperson, R&D Cell & Principal, BKG C, Howrah)

Received  
Bann.



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## RESEARCH & DEVELOPMENT CELL, IQAC

### 10. Numer of Participants (with proof) & typed list of participants in excel sheet.

1	Salutation	First Name	Middle Name	Surname	Phone Number(WhatsApp)	Affiliating Institution/University/ College	Select Track	Mode of Presentation
2	Mr	Indrajit		Mondal	7003630474	Jadavpur University	Physical Sciences	Offline
3	Ms	Trishita		Hassan	6297285283	Jadavpur University	Physical Sciences	Offline
4	Ms	Sucheta		Mitra	7063535078	Jadavpur University	Physical Sciences	Offline
5	Ms	Piyali		Halder	7001991120	Jadavpur University	Physical Sciences	Offline
6	Ms	Shireen		Sultana	8101779263	Jadavpur University	Physical Sciences	Offline
7	Mr	Somen		Biswas	9434951741	Bangabasi College and Jadavpur University	Physical Sciences	Offline
8	Dr	Saroj	Kumar	Ghosh	9474643180	Bejoy Narayan Mahavidyalaya, Itachuna, Hooghly-712 147, West Bengal	Biological Sciences	Offline
9	Dr	Arindam		Mandal	08900305595	Bejoy Narayan Mahavidyalaya, Itachuna, Hooghly, West Bengal-712147	Biological Sciences	Offline
10	Mr	Ranajoy		DAS	9330525127	Jadavpur University	Physical Sciences	Offline
11	Mr	AMARTYA		SAU	7797139203	JADAVPUR UNIVERSITY	Physical Sciences	Offline
12	Ms	Shriparna		Roy	9564882822	Jadavpur University	Physical Sciences	Offline
13	Mr	Souvik		Sau	9830623959	JADAVPUR UNIVERSITY	Physical Sciences	Offline
14	Ms	Neelanjana		Bag	7001379327	Jadavpur University	Physical Sciences	Offline

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**RESEARCH & DEVELOPMENT CELL, IQAC**

15	Ms	Anwesh a		Mukherj ee	9051316491	Jadavpur University	Physical Sciences	Offline
16	Mr	ALAPAN		PAL	9038075350	JADAVPUR UNIVERSITY	Physical Sciences	Offline
17	Dr	Raju		Dutta	9883189499	Sushil Kar College	Computational Sciences	Offline
18	Mr	Ankush		Mitra	9432352479	Zoological Survey of India	Biological Sciences	Offline
19	Dr	Dipanjan		Ray	9874536542	Bajkul Milani Mahavidyalay	Biological Sciences	Offline
20	Mr	SURAJIT		DAS	8918265754	JADAVPUR UNIVERSITY	Physical Sciences	Offline
21	Dr	RAJU		DUTTA	9883189499	SUSHIL KAR COLLEGE	Mathematical Sciences	Offline
22	Dr	Sunit	Kumar	Chakraborty	8017618122	Raja Rammohun Roy Mahavidyalaya affiliated to Burdwan University	Biological Sciences	Offline
23	Mr	Barun	Kumar	Mondal	9093264405	Narajole Raj College	Chemical Sciences	Offline
24	Dr	MADHABI		AICH (SARKAR)	9143643617	KHALISANI MAHAVIDYALAYA	Biological Sciences	Offline
25	Mr	RADHA	BINOD	DAS	9851412244	EGRA SSB COLLEGE	Mathematical Sciences	Online
26	Dr	Anuva		Samanta	9830969298	Victoria Institution (College)	Chemical Sciences	Online
27	Mr	Raju		Majumdar	8536830731	Vidyasagar University	Biological Sciences	Online
28	Dr	Bhaskar	Chandra	Sarkar	7362928035	Ramananda College, Bishnupur	Mathematical Sciences	Online
29	Dr	Prasanta		Das	+919635129835	Ramananda College,	Mathematical	Online

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**RESEARCH & DEVELOPMENT CELL, IQAC**

						Bishnupur	Sciences	
30	Mr	Ajjur	Rahaman	Mallick	9007961952	Maheshtala College	Mathematical Sciences	Online
31	Ms	AMMU		S P	9746661278	Sree Narayana college, Cherthala	Biological Sciences	Online
32	Dr	Sraboni		Chatterjee	9830454283	Bijoy Krishna Girls' College, Howrah	Allied Subjects	Offline
33	Dr	Santanu		Chakraborty	9163628133	Bhairab Ganguly College	Allied Subjects	Online
34	Dr	Tanbir		Nasim	8336959101	Bijoy Krishna Girls' College	Chemical Sciences	Offline
35	Mr	ABHIJIT		BAR	8420373807	JOGESH CHANDRA CHAUDHURI COLLEGE	Physical Sciences	Online
36	Mr	Biswajit		Saha	8013671129	Bijoy Krishna Girls' College Howrah	Biological Sciences	Offline
37	Dr	Debjani		Mitra	9836993470	Bijoy Krishna Girls' College, Howrah	Allied Subjects	Offline
38	Dr	Sampriti		Biswas	7319041327	Krishnath College, Berhampore, Murshidabad West Bengal	Allied Subjects	Online
39	Dr	Samiran		Banerjee	9874209951	Bijoy Krishna Girls' College, Howrah	Mathematical Sciences	Offline
40	Dr	NAREN		MUDI	7872410048	BIJOY KRISHNA GIRLS' COLLEGE, HOWRAH	Chemical Sciences	Offline
41	Mr	Basudeb		Roy Chaudhury	9434834020	Bijoy Krishna Girls' College, Howrah	Physical Sciences	Offline
42	Ms	Mrittika		Sarkar	8337017061	Indian Institute of	Allied Subjects	Online

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**RESEARCH & DEVELOPMENT CELL, IQAC**

						Management, Amritsar.		
4 3	Dr	BHASKA R		CHAUDH URI	9932995091	BIJOY KRISHNA GIRLS' COLLEGE, HOWRAH	Computati onal Sciences	Offline
4 4	Dr	Shampa		Mondal	9434834090	Aghore Kamini Prakash Chandra Mahavidyalaya, Bengai, Hooghly	Physical Sciences	Offline
4 5	Dr	Pratap		Mondal	9732914192	Bijoy Krishna Girls'College, Howrah	Mathemat ical Sciences	Offline
4 6	Mr	Ranen		Bhattach arya	9331019671	Bijoy Krishna Girls' College, Howrah	Mathemat ical Sciences	Offline
4 7	Mr	Joy		Adhikary	09051229148	Bijoy Krishna Girls' College, Howrah	Computati onal Sciences	Offline
4 8	Mr	Ananta		Halder	9832534343	Bijoy Krishna Girls' College, Howrah	Allied Subjects	Offline
4 9	Dr	SUBHRA DIP		DAS	9748890604	BIJOY KRISHNA GIRLS' COLLEGE, HOWRAH	Physical Sciences	Offline
5 0	Dr	SOUVIK		DAS	9681143730	BIJOY KRISHNA GIRLS' COLLEGE, HOWRAH	Allied Subjects	Offline
5 1	Dr	Subhajit		Maity	8777241123	University of Burdwan	Biological Sciences	Offline
5 2	Ms	Manasi		Upadhya y	9330269130	Calcutta University	Biological Sciences	Offline
5 3	Dr	Anshu		Bajaj	9813918158	C.C.S.H.A.U,HIS AR	Biological Sciences	Online
5 4	Ms	Shilpa		Mishra	9406396142	Govt. D.B. girls' P.G. College, Raipur (C.G.)	Biological Sciences	Online
5 5	Ms	S	Indhum athi		9659206917	Nehru Arts and Science College,	Mathemat ical	Online

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**RESEARCH & DEVELOPMENT CELL, IQAC**

						Coimbatore	Sciences	
5 6	Dr	Vibha		Choubey	9424650499	Govt. J. Y. C. G. College, Raipur, Chhattisgarh	Computational Sciences	Offline
5 7	Ms	Rachana		Manna	9073584140	University of Calcutta	Biological Sciences	Offline
5 8	Mr	ABHIJIT		PAKHIRA	09674008675	VIVEKANANDA MAHAVIDYALAYA, HARIPAL, HOOGHLY, PIN-712405	Biological Sciences	Offline
5 9	Ms	LAZUMLA	TSHERING	SHERPA	9932872559	BIJOY KRISHNA GIRLS' COLLEGE	Chemical Sciences	Offline
6 0	Dr	Asmita		Mukherjee	9433325448	University of Calcutta	Allied Subjects	Offline
6 1	Dr	Bidyadhar		Mondal		BIJOY KRISHNA GIRLS' COLLEGE	Chemical Sciences	Offline
6 2	Dr	Nandita		Palit		BIJOY KRISHNA GIRLS' COLLEGE	Physical Sciences	Offline
6 3	Mr	Jhantu		Paul		BIJOY KRISHNA GIRLS' COLLEGE		
6 4	Mr	Subrata	Kumar	Banik		BIJOY KRISHNA GIRLS' COLLEGE	Allied Subjects	Offline
6 5	Dr	Shyamal	Kumar	Paul		BIJOY KRISHNA GIRLS' COLLEGE	Physical Sciences	Offline



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5/3, MAHATMA GANDHI ROAD, HOWRAH – 711 101

## RESEARCH & DEVELOPMENT CELL, IQAC

### • Attendance Sheet(s)

FBSA 2025							
Salutation	First Name	Middle	Surname	Affiliating Institution/University/ College	Signature (3.1.25)	Signature (4.1.25)	Signature
1. Mr	Indrajit		Mondal	Jadavpur University	Mondal	Mondal	
2. Ms	Trishita		Hassan	Jadavpur University	Trishita Hassan	Trishita Hassan	
3. Ms	Sucheta		Mitra	Jadavpur University	Sucheta Mitra	Sucheta Mitra	
4. Ms	Piyali		Halder	Jadavpur University	Piyali Halder		
5. Ms	Shireen		Sultana	Jadavpur University	Shireen Sultana	Shireen Sultana	
6. Mr	Somen		Biswas	Bangabasi College	Somen Biswas	Somen Biswas	
7. Dr	Saroj	Kumar	Ghosh	Bejoy Narayan Mahavidyalaya,	Saroj K Ghosh		
8. Dr	Arindam		Mandal	Bejoy Narayan Mahavidyalaya,	Arindam Mandal		
9. Mr	Ranajoy		DAS	Jadavpur University Kalyan Kumar Banerjee	Ranajoy Das	Kalyan Kumar Banerjee	
10. Mr	AMARTYA		SAU	JADAVPUR UNIVERSITY	Amartya Sau	Amartya Sau	
11. Ms	Shriparna		Roy	Jadavpur University	Shriparna Roy	Shriparna Roy	
12. Mr	Souvik		Sau	JADAVPUR UNIVERSITY	Souvik Sau	Souvik Sau	
13. Ms	Neelanjana		Bag	Jadavpur University	Neelanjana Bag	Neelanjana Bag	
14. Ms	Anwasha		Mukherjee	Jadavpur University	Anwasha Mukherjee	Anwasha Mukherjee	
15. Mr	ALAPAN		PAL	JADAVPUR UNIVERSITY	Alapan Pal	Alapan Pal	
16. Dr	Raju		Dutta	Sushil Kar College	Raju Dutta	Raju Dutta	
17. Mr	Ankush		Mitra	Zoological Survey of India	Ankush Mitra	Ankush Mitra	
18. Dr	Dipnjan		Ray	Bajkul Milani Mahavidyalaya	Dipnjan Ray		
19. Mr	SURAJIT		DAS	JADAVPUR UNIVERSITY	Surajit Das	Surajit Das	
20. Dr	RAJU		DUTTA	SUSHIL KAR COLLEGE	Raju Dutta	Raju Dutta	
21. Dr	Sunit	Kumar	Chakraborty	Raja Rammohun Roy Mahavidyalaya	Sunit Chakraborty	Sunit Chakraborty	
22. Mr	Barun	Kumar	Mondal	Narajole Raj College	Barun Kumar Mondal		
23. Dr	Subhajit		Maiti	University of Burdwan	Subhajit Maiti	Subhajit Maiti	
24. Ms	Manasi		Upadhyay	Calcutta University	Manasi Upadhyay		
25. Dr	MADHABI		AICH (SARKAR)	KHALISANI MAHAVIDYALAYA	Madhabi Aich	Madhabi Aich	
26. Mr	RADHA	BINOD	DAS	EGRA SSB COLLEGE	Radha Binod Das		
27. Dr	Anshu		Bajaj	C. C. S. H. A. U. HISAR	Anshu Bajaj		
28. Dr	Anuva		Samanta	Victoria Institution (College)	Anuva Samanta		
29. Mr	Raju		Majumdar	Vidyasagar University	Raju Majumdar		
30. Dr	Bhaskar	Chandra	Sarkar	Ramananda College, Bishnupur	Bhaskar Chandra Sarkar	Bhaskar Chandra Sarkar	online

# BIJOY KRISHNA GIRLS' COLLEGE, HOWRAH

A NCTE and NAAC accredited (B<sup>++</sup>) College

5/3, MAHATMA GANDHI ROAD, HOWRAH – 711 101

## RESEARCH & DEVELOPMENT CELL, IQAC



30.	Dr	Prasanta	Das	Ramananda College, Bishnupur	Online	
31.	Mr	Ajjur	Raham	Mallick Maheshtala College	Online	
32.	Ms	Shipa		Mishra Govt. D.B. girls' P.G. College, Raipur (C.G.)	X	
33.	Ms	AMMU		S P Sree Narayana college, Cherthala	online	
34.	Ms	S	Indhum	Nehru Arts and Science College, Coimbatore	Online	
35.	Dr	Vibha		Choubey Govt. J. Y. C. G. College, Raipur, Chhattisgarh		
36.	Ms	Rachana		Manna University of Calcutta	Rachana Karama, Jhps	
37.	Mr	ABHIJIT		PAKHIRA VIVEKANANDA MAHAVIDYALAYA, HARIPAL	Abhijit Pakhira 02/01/25	Abhijit Pakhira 02/01/25
38.	Dr	Sraboni		Chatterjee Bijoy Krishna Girls' College, Howrah	Sraboni 02/01/25	Sraboni 02/01/25
39.	Dr	Santanu		Chakraborty Bhairab Ganguly College		
40.	Dr	Tanbir		Nasim Bijoy Krishna Girls' College,	Dr 03/01/25	Dr 04/01/25
41.	Mr	ABHIJIT		BAR JOGESH CHANDRA CHAUDHURI COLLEGE	Mr 03.01.25	Mr 09.01.25
42.	Mr	Biswajit		Saha Bijoy Krishna Girls' College Howrah	Biswajit	Biswajit 01/01/25
43.	Dr	Debjani		Mitra Bijoy Krishna Girls' College, Howrah	Dr 03/01/25	Dr 09/01/25
44.	Ms	LAZUMLA	TSHER	SHERPA BIJOY KRISHNA GIRLS' COLLEGE	L. S. M. 03/01/25	L. S. M. 04/01/25
45.	Dr	Sampri		Biswas Krishnath College, Berhampore, Murshidabad West Bengal	Sampri	Sampri
46.	Dr	Samiran		Banerjee Bijoy Krishna Girls' College, Howrah	Samiran	Samiran
47.	Dr	NAREN		MUDI BIJOY KRISHNA GIRLS' COLLEGE, HOWRAH	Dr 03/01/25	Dr 09/01/25
48.	Mr	Basudeb		Roy Chaudhury Bijoy Krishna Girls' College Howrah		
49.	Ms	Mritika		Sarkar Indian Institute of Management, Amritsar.	Mritika 03/1/25	Mritika 4/1/25
50.	Dr	BHASKAR		CHAUDHURI BIJOY KRISHNA GIRLS' COLLEGE, HOWRAH	S. Mondal 03/01/25	S. Mondal 04/01/25
51.	Dr	Shampa		Mondal Aghore Kamini Prakash Chandra Mahavidyalaya, Bengal, Hooghly	Dr 03/1/25	Dr 04/1/25
52.	Dr	Pratap		Mondal Bijoy Krishna Girls' College, Howrah	Dr 03/01/25	Dr 04/01/25
53.	Mr	Ranen		Bhattacharya Bijoy Krishna Girls' College, Howrah	Mr Ranen 03/01/25	Mr Ranen 04/01/25
54.	Mr	Joy		Adhikary Bijoy Krishna Girls' College, Howrah	Mr Joy 03/01/25	Mr Joy 04/01/25
55.	Mr	Ananta		Halder Bijoy Krishna Girls' College, Howrah	Mr 03.01.25	Mr 04.01.25
56.	Dr	SUBHRADIP		DAS BIJOY KRISHNA GIRLS' COLLEGE, HOWRAH	Dr 03.01.25	Dr 04.01.25
57.	Dr	SOUVIK		DAS BIJOY KRISHNA GIRLS' COLLEGE, HOWRAH	Dr 03.01.25	Dr 04.01.25
58.	Dr.	Bidyadhan		Mondal	Bidyadhan 03/1/25	Bidyadhan 4/1/25
59.	Dr.	Nandita		Deit	Nandita 3/1/25	Nandita 4/1/25
60.	Dr.	Jhanta		Dei	Jhanta 3/1/25	Jhanta 4/1/25
61.	Dr.	Subrata Kumar Banik			Subrata kv. Banik 03/01/25	Subrata kv. Banik 04/01/25
62.	Dr.	Asmita		Mukherjee	Asmita 3/01/25	Asmita 4/1/25
63.	Dr.	Shyamal Kumar Das			Shyamal 3/01/25	Shyamal 4/1/25

Meeting No. .... MINUTE BOOK Meeting Time .....

Meeting Date ..... Meeting Place .....

FBSA-2025

Speakers :- Dr. Dwaidayan Shukrabarti  
Associate Professor, School of Chemistry  
University of Birmingham.

2. Rajparika Das

3. Dr. Soumitro Banerjee  
Professor,

4. Dr. Jaydeb Sarkar  
Professor, ISI, Bangalore

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## RESEARCH & DEVELOPMENT CELL, IQAC



MINUTE BOOK				
Meeting No.	Meeting Date	Meeting Time	Meeting Place	
Faculty:				
Sr	NAME	Dept.	Institution	Signature
1.	DR. MADHANI MITRA (SARAK)	ZOOLOGY	KHALISANI MAHAVIDYALAYA	Dr. Madhani Mitra (Sarak)
2.	RAJU MAJUMDAR	ZOOLOGY	MUMBERA MAHAVIDYALAYA	Raju Majumdar
3.	DR. SUBHAJIT MATHY	ZOOLOGY	NETAJI MAHAVIDYALAYA	S. Mathy 31/125
4.	ABHIJIT BAR	PHYSICS	JOGESH CHANDRA CHAUDHURI COLLEGE	ABJ 02.01.2025
5.	SUBHARADIP DAS	ELECTRONICS	BIJOY KRISHNA GIRLS' COLLEGE, HOWRAH	S.D 03.01.2025
6.	JHANTU PAUL	STATISTICS	B.K.G.C.	J.P 05.01.2025
7.	PANJWA GHOSH	CHEMISTRY	B.K.G.C.	P.G 03.01.2025
8.	JOY ADHIKARY	COMPUTER SCIENCE	B.K.G.C.	Jy Adhikary 05.01.2025
9.	TANBIR NASIM	CHEMISTRY	4	T.N 05/01/25
10.	CHINMOY BASU	ZOOLOGY	B.K.G.C.	C.B 05/01/25
11.	ARUMBA THEERING SHEARA	CHEMISTRY	B.K.G.C.	A.T 05/01/25
12.	DEBJANI MITRA	ECONOMICS	B.K.G.C.	D.M 05/01/25
13.	RUPAK BHATTACHARYA	MATHS	B.K.G.C.	R.B 05/01/25
14.	SHYAMAL KUMAR PAI	PHYS	B.K.G.C.	S.K 05/01/25
15.	SAHIRAN BANERJEE	MATHS	B.K.G.C.	S.B 05/01/25
16.	SARAJIT ANKUSA	ECONOMICS	B.K.G.C.	S.A 05/01/25
17.	PAPNA GHOSH	ZOOLOGY	B.K.G.C.	P.G 05/01/25
18.	BISWAJIT SAHA	MICROBIOLOGY	B.K.G.C.	B.S 05/01/25
19.	SAYAK BHATTACHARYA	MICROBIOLOGY	B.K.G.C.	S.B 05/01/25
20.	ANITA MITRA	MATHS	B.K.G.C.	A.M 05/01/25
21.	Mayurakshi Jana	Computer Science	B.K.G.C.	M.J 03.01.25
22.	Abhi Bhatta	ELECTRONICS	B.K.G.C.	A.B 03.01.2025
23.	Indyashree Mondal	CHEMISTRY	B.K.G.C.	I.M 03/01/25
24.	Amrita Mukherjee	ZOOLOGY	B.K.G.C.	A.M 03/01/25
25.	Susantada Choudhury	ZOOLOGY	B.K.G.C.	S.C 03/01/25
26.	KAREN MUDDI	CHEMISTRY	B.K.G.C.	K.M 03/01/25
27.	Mousumi Mukherjee	MICROBIOLOGY	B.K.G.C.	M.M 03/01/25
28.	ANANTA HANDEK	B.ED	B.K.G.C.	A.H 03.01.25
29.	Soma Jana	Psychology	B.K.G.C.	S.J 03.01.25
30.	Subrata K. Banik	Botany	B.K.G.C.	S.B 03.01.25
31.	Nandita Paul	PHYSICS	B.K.G.C.	N.P 03/01/25

MINUTE BOOK				
Meeting No.	Meeting Date	Meeting Time	Meeting Place	
NAME	Dept.	Institution	Signature	
1. JOY ADHIKARY	Computer Science	B.K.G.C.	Jy Adhikary 04.01.25	
2. SUBHARADIP DAS	ELECTRONICS	B.K.G.C.	S.D 04/01/25	
3. PRATAP MONDA	Math	B.K.G.C.	P.M 04/01/25	
4. SUVAN TASHO LECNA	ECONOMICS	B.K.G.C.	S.L 04/01/25	
5. LAZUMA T. SHERA	CHEMISTRY	B.K.G.C.	L.S 04/01/25	
6. NAREN MUDDI	CHEMISTRY	B.K.G.C.	N.M 04/01/25	
7. Soumit Anand	Economics	"	S.A 4/1/25	
8. Mathab d. Roy	Philosophy	"	M.R 4/1/25	
9. Mani Saha	Philosophy	B.K.G.C.	M.S 4/1/25	
10. Tantra Paul	Statistics	B.K.G.C.	T.P 4/1/25	
11. Mousumi Mukherjee	Microbiology	B.K.G.C.	M.M 04/01/25	
12. Anurik Mukherjee	ZOO	B.K.G.C.	A.M 4/1/25	
13. Mayurakshi Jana	Computer Science	B.K.G.C.	M.J 04.01.25	
14. Ananta Hande	B.ED	B.K.G.C.	A.H 4/1/25	
15. Soma Jana	Psychology	B.K.G.C.	S.J 4/1/25	
16. TANBIR NASIM	Chemistry	B.K.G.C.	T.N 04/01/25	
17. Souvik Das	HISTORY	B.K.G.C.	S.D 4/1/25	
18. Abhi Bhatta	Electronics	B.K.G.C.	A.B 4/1/25	
19. Subrata K. Banik	Botany	B.K.G.C.	S.B 4/1/25	
20. Shyamal K. Paul	Physics	B.K.G.C.	S.K 04/01/25	
21. Indyashree Mondal	Chemistry	B.K.G.C.	I.M 04/01/25	
22. Papiya Ghosh	Zoology	B.K.G.C.	P.G 04/01/25	
23. Jomey De	Physics	B.K.G.C.	J.D 04/01/25	
24. KANEN BHATTACHARYA	MATHS	"	K.B 04/01/25	
25. Shela Guha	PHILO	"	S.G 04/01/25	
26. Karati Mitra	HISTORY	B.K.G.C.	K.M 04/01/25	
27. Nandita Paul	PHYSICS	B.K.G.C.	N.P 04/01/25	
28. SAMIRAN BANERJEE	MATHS	B.K.G.C.	S.B 04/01/25	
29. SOUVIK SAU	PHYSICS	JANAKPUR UNIVERSITY	S.S 04/01/25	
30. Anurikha Banerjee	"	"	A.B 04/01/25	
31. Ghoshaama Roy	"	"	G.R 04/01/25	
32. Anurikha Mukherjee	"	"	A.M 04/01/25	
33. Neelanjana Bag	PHYSICS	BANGABAI COLLEGE + SU	N.B 04/01/25	
34. Samal Biswas	"	"	S.B 04/01/25	

MINUTE BOOK				
Meeting No.	Meeting Date	Meeting Time	Meeting Place	
SL No.	NAME in Capital	Dept	Semester	
1.	SITISHNA MITRA	Botany	III	
2.	POULAMI BASU	Botany	III	
3.	DISHA BHATTACHARYA	Botany	III	
4.	SHREYA MANNA	ZOOLOGY	III	
5.	RITIKA DAS	ZOOLOGY	III	
6.	PRITIA CHAKRABORTY	Math	III	
7.	ALISHA	Math	III	
8.	PINGOLIKA DAS	Maths	III	
9.	SUMANA YEASMIN	Mathematics	III	
10.	MONAMI PANJA	Mathematics	III	
11.	KOYEL KARMAKAR	Chemistry	III	
12.	Anuska Khan (ANUSKA KHAN)	Botany	III	
13.	DIDHI PATRA (DIDHI PATRA)	Chemistry	III	
14.	DEBASMITA DEY	Chemistry	III	
15.	KANINIKHA GHOSH	chemistry	III	
16.	Ranika Sarder	Physics	III	
17.	Indyashree Jana	Chemistry	III	
18.	Shreya Ghosh	Chemistry	III	
19.	Nafisa Khatoon	Zoology	I	
20.	MONIKA KHATUN	Zoology	I	
21.	TANVISTHA DAS	Zoology	I	
22.	Pranati Jaiswal	Zoology	I	
23.	Puja Karanika	Zoology	I	
24.	Anurikha Mukherjee	Zoology	I	
25.	Nandita Mukherjee	Zoology	I	
26.	Jelly Das	Zoology	I	
27.	Anurikha Mukherjee	Zoology	I	
28.	Koyel Sankar	Zoology	I	
29.	Nisha Chatterjee (NISHA CHATTERJEE)	Zoology	I	
30.	Nisha Roy (NISHA ROY)	Zoology	I	
31.	Soumya Banerjee (SOUMYA BANERJEE)	Zoology	I	

MINUTE BOOK	
Meeting No.	Meeting Time
Mobile No.	Signature
9007023803	Sitisha Mitra
81006493901	Poulami Basu
8582881954	Disha Bhattacharya
97555-0701	Shreya Manna
8777821953	Ritika Das
85833712530	Pritia Chakraborty
9674662707	Alisha
891046655	Pingolika Das
8712237307	Sumana Yeasmin
8767107345	Monami Panja
7595294738	Koyel Karanika
9248061287	Anuska Khan
9163855332	Didhi Patra
7003546567	Debasmita Dey
828184272	Kaninika Ghosh
8276718322	Ranika Sarder
8281019766	Indyashree Jana
860318810	Shreya Ghosh
7003702429	Nafisa Khatoon
903434461	Monika Khatoon
820458868	Tanvisha Das
811111212	Pranati Jaiswal
7980598239	Puja Karanika
767407654	Anurikha Mukherjee
700373806	Nandita Mukherjee
877353655	Jelly Das
7670317488	Anurikha Mukherjee
9874222914	Koyel Sankar
8776220423	Nisha Chatterjee
0733676855	Nisha Roy
6231504081	Soumya Banerjee



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## RESEARCH & DEVELOPMENT CELL, IQAC

Meeting No.	Meeting Date	Name in Capital	Rep & Sen	Topic	Mobile
32		ANANTIKA GHOSH	Bsc. General	1st Sem	7001340468
33		SIKRITI DOSE	Bsc. General	1st Sem	7614000754
34		Mahabehn Patra	Bsc. General	1st Sem	798602678
34		Sudeshna Dasi	Bsc. General	1st Sem	8585893993
34		PAYEL GHOSH	Bsc. General	1st Sem	942223398
37		Shreya Datta (Sudeshna Dasi)	Chemistry	3rd	811263557
38		Sandhya Saha	Chemistry	3rd	811263557
39		Suchita Saha	Zoology	3rd	9043806293
40		Nandini Raychaudhary	Zoology	3rd	621129237
41		Ketu Das	Zoology	3rd	621129233
42		Sanjana Saha	Zoology	3rd	9433754094
43		Suchana Bhattacharya	Zoology	3rd	9043806293
44		Rutna Das	Zoology	3rd	8773937921
46		KRITI MAJUMDAR	Zoology	1st	9802337200
46		PAVLE MAJUMDAR	Zoology	1st	828081105
47		Sanjana Ghosh	Zoology	1st	9009351809
48		Indira Ranita Anand	BSc (General)	1st	8612022950
50		PRITYA SADRUKHAN	ZOOLGY	1st	629043824
51		Anushka Bannari	ZOOLOGY	1st	783981603
51		SRINIDHI KUMARI	BSc (General)	1st	1603092578
52		Aditya Taluk	Microbiology	3rd	6889301945
52		Aditya Basak	Microbiology	3rd	7780690430
52		Udit Das	Microbiology	3rd	943954412
52		Shruti Saha	Microbiology	3rd	91514626
53		Sanya Majumdar	Microbiology	3rd	93331005
54		UTARA BASU	Microbiology	3rd	6290946556
56		Somali Saha	Microbiology	3rd	801777589
58		Megha Hazra	Zoology	3rd	930046770
60		Anupriya Shukla	Zoology	3rd	7780193969
60		Ananya Saha	Zoology	3rd	9979890554
62		Asmita Ghosh	Zoology	3rd	8240710393

Meeting No.	Meeting Date	Name in Capital	Rep & Sen	Topic	Mobile
		ANANTIKA GHOSH	Bsc. General	1st Sem	7001340468
		SIKRITI DOSE	Bsc. General	1st Sem	7614000754
		Mahabehn Patra	Bsc. General	1st Sem	798602678
		Sudeshna Dasi	Bsc. General	1st Sem	8585893993
		PAYEL GHOSH	Bsc. General	1st Sem	942223398
		Shreya Datta (Sudeshna Dasi)	Chemistry	3rd	811263557
		Sandhya Saha	Chemistry	3rd	811263557
		Suchita Saha	Zoology	3rd	9043806293
		Nandini Raychaudhary	Zoology	3rd	621129237
		Ketu Das	Zoology	3rd	621129233
		Sanjana Saha	Zoology	3rd	9433754094
		Suchana Bhattacharya	Zoology	3rd	9043806293
		Rutna Das	Zoology	3rd	8773937921
		KRITI MAJUMDAR	Zoology	1st	9802337200
		PAVLE MAJUMDAR	Zoology	1st	828081105
		Sanjana Ghosh	Zoology	1st	9009351809
		Indira Ranita Anand	BSc (General)	1st	8612022950
		PRITYA SADRUKHAN	ZOOLGY	1st	629043824
		Anushka Bannari	ZOOLOGY	1st	783981603
		SRINIDHI KUMARI	BSc (General)	1st	1603092578
		Aditya Taluk	Microbiology	3rd	6889301945
		Aditya Basak	Microbiology	3rd	7780690430
		Udit Das	Microbiology	3rd	943954412
		Shruti Saha	Microbiology	3rd	91514626
		Sanya Majumdar	Microbiology	3rd	93331005
		UTARA BASU	Microbiology	3rd	6290946556
		Somali Saha	Microbiology	3rd	801777589
		Megha Hazra	Zoology	3rd	930046770
		Anupriya Shukla	Zoology	3rd	7780193969
		Ananya Saha	Zoology	3rd	9979890554
		Asmita Ghosh	Zoology	3rd	8240710393

Meeting No.	Meeting Date	Name in Capital	Rep & Sen	Topic	Mobile
63		Kaushik Singh	Zoology	1st	9432537617
64		SRIBRANTI GHOSH	Zoology	3rd	9311880356
65		RUKHMA KHADGAM	Zoology	3rd	4062392162
65		ANITA SINGH ANSARI	Zoology	3rd	8013100865
69		KAUSHIK SINGH	Zoology	3rd	8240979246

Meeting No.	Meeting Date	Name in Capital	Rep & Sen	Topic	Mobile
		ANANTIKA GHOSH	Bsc. General	1st Sem	7001340468
		SIKRITI DOSE	Bsc. General	1st Sem	7614000754
		Mahabehn Patra	Bsc. General	1st Sem	798602678
		Sudeshna Dasi	Bsc. General	1st Sem	8585893993
		PAYEL GHOSH	Bsc. General	1st Sem	942223398
		Shreya Datta (Sudeshna Dasi)	Chemistry	3rd	811263557
		Sandhya Saha	Chemistry	3rd	811263557
		Suchita Saha	Zoology	3rd	9043806293
		Nandini Raychaudhary	Zoology	3rd	621129237
		Ketu Das	Zoology	3rd	621129233
		Sanjana Saha	Zoology	3rd	9433754094
		Suchana Bhattacharya	Zoology	3rd	9043806293
		Rutna Das	Zoology	3rd	8773937921
		KRITI MAJUMDAR	Zoology	1st	9802337200
		PAVLE MAJUMDAR	Zoology	1st	828081105
		Sanjana Ghosh	Zoology	1st	9009351809
		Indira Ranita Anand	BSc (General)	1st	8612022950
		PRITYA SADRUKHAN	ZOOLGY	1st	629043824
		Anushka Bannari	ZOOLOGY	1st	783981603
		SRINIDHI KUMARI	BSc (General)	1st	1603092578
		Aditya Taluk	Microbiology	3rd	6889301945
		Aditya Basak	Microbiology	3rd	7780690430
		Udit Das	Microbiology	3rd	943954412
		Shruti Saha	Microbiology	3rd	91514626
		Sanya Majumdar	Microbiology	3rd	93331005
		UTARA BASU	Microbiology	3rd	6290946556
		Somali Saha	Microbiology	3rd	801777589
		Megha Hazra	Zoology	3rd	930046770
		Anupriya Shukla	Zoology	3rd	7780193969
		Ananya Saha	Zoology	3rd	9979890554
		Asmita Ghosh	Zoology	3rd	8240710393

### 11. Report on the programme:

#### Report on Technical Session – Biological Sciences

The technical session was held in Room Number G 1, on 3.01.25 and 04.01.25. This session was chaired by Dr Papiya Ghosh, Associate Professor, Department of Zoology, Bijoy Krishna Girls' College, Howrah.

Following papers were presented by the researchers in both virtual and offline mode

Ankush Mitra worked on

Species diversity of Diptera in coastal stretch of Mandarmani and adjacent area of West Bengal, India,



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recorded total of 136 specimens of 24 species of adult dipteran fauna belonging to eleven families and presented his work in offline mode.

SunitKumarChakraborty has presented a research paper on purificationandcharacterizationofphosphatedependentglutaminasefromisolated mitochondria of sarcoma- 180 tumour cells in offline mode.

SubhajitMaity gave detailed idea on polyphenolsasherbalanti-diabeticagentsinfreeandencapsulatedstatein polymeric vehicles in offline mode.

ManasiUpadhyayworked on bioethanolproductionfromstarchyfoodwasteandproductionenhancementusing amylase producing bacteria isolated from soil and presented her work in offline mode.

MadhabiAich presented poster on microvilloussupportingcellsinolfactoryneuroepitheliumoffish(*Anabastestudineus*)asa biological tool to detects physical stress of aquatic system.

SarojKumar Ghosh briefed on structuralorganizationoftheolfactoryorganofarivercatfish,*Clupisomagarua* (Hamilton, 1822) in offline mode.

ArindamMandal gave idea in offline mode on thearchetypeofseedontogenyandmaturationinlentil(*Lens Culinaris*) and its implications for crop improvement.

RachanaMannagave an overview onapplicationofnitrogenfixingbacteriaonthe growthofgreengramplant in offline mode.

AbhijitPakhira <sup>detailed</sup> onpathogenomicinsightsinto*Bacillus cereus*virulence on mortality study in farmed labeorohita (hamilton, 1822), in India

BiswajitSaha worked on isolationandcharacterizationofplantgrowthpromoting*aspergillus*sp.withpetroleum degrading property from rhizospheric soil of sundarban mangrove region in WestBengalandtheireffectongrowthof*Abelmoschus esculentus*.



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AnshuBajaj presented her work in online mode on

Genetic Variability Studies of Cluster Bean Varieties by RAPD Analysis and Optimization and Inference of PCR Conditions

Ammu SP, presented in online mode and gave an idea on

LCM Screening and Molecular Docking of Acorus Calamus L. RHIZOME.

The technical session ended with a vote of thanks delivered by Biswajit Saha, Department of Microbiology.





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### REPORT ON SESSION 2- CHEMICAL SCIENCES OF INTERNATIONAL CONFERENCE ON FACETS OF BASIC SCIENCES AND APPLICATIONS (FBSA) 2025

The two days International Conference on Facets of Basic Sciences and Applications(FBSA) , offered several technical sessions dedicated to various facets of basic sciences. Session 2 for Chemical Sciences was held on Day 1 of the conference, January 3rd, 2025. The chair of the session was Dr. Bidyadhar Mandal, Associate Professor of Chemistry, Bijoy Krishna Girls' College, Howrah. Five presentations were given, two of which were presented online. The two online presenters were Barun Kumar Mondal and Anuva Samanta. The topics of each participant's presentation were as follows.

Date and Time	Session	Title of the Paper	Presenters	Session Chair
03/01/25	Session 2: <b>Chemical Sciences</b> (Venue: Room U-2) (Parallel Session)  (Time: 03:30 PM – 05:00 PM)	CO <sub>2</sub> /N <sub>2</sub> Gas Separation Performance in Mixed Matrix Membranes Containing ZIF-78/Polyamide (PA)	Barun Kumar Mondal	<b>Dr. Bidyadhar Mandal</b>  <b>Felicitation:</b> Lazumla Tshering Sherpa <b>Rapporteur:</b> Lazumla Tshering Sherpa <b>Introducer &amp; Vote of Thanks:</b> Dr. Tanbir Nasim
		5-(4-fluorophenyl)-2-hydroxypyridine: An outstanding transition metal ions fluorosensor	Anuva Samanta	
		A Brief Review of Quantum Chemical Treatment of Non-Covalent Molecular Clusters	Lazumla Tshering Sherpa	
		A concise review on colorimetric and fluorescent chemosensors for the P <sub>4</sub> O <sub>3</sub> <sup>2-</sup>	Naren Mudi	
		Flocculation efficiency of four bio-flocculants against widely used inorganic flocculants for treatment of kaolinated waste water	Tanbir Nasim	

Dr. Tanbir Nasim, Coordinator of FBSA delivered the vote of thanks for the engaging session. Some pictures of the sessions are given below.

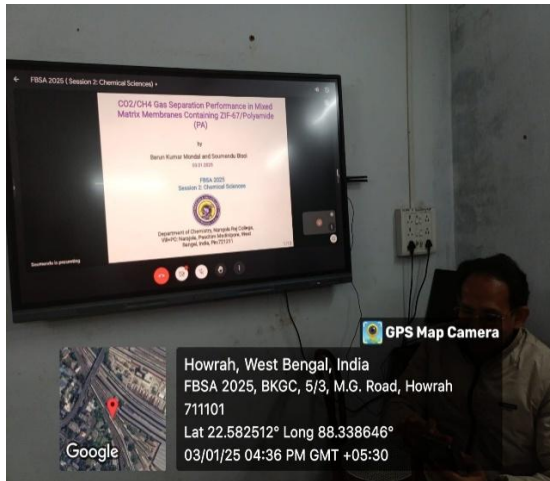


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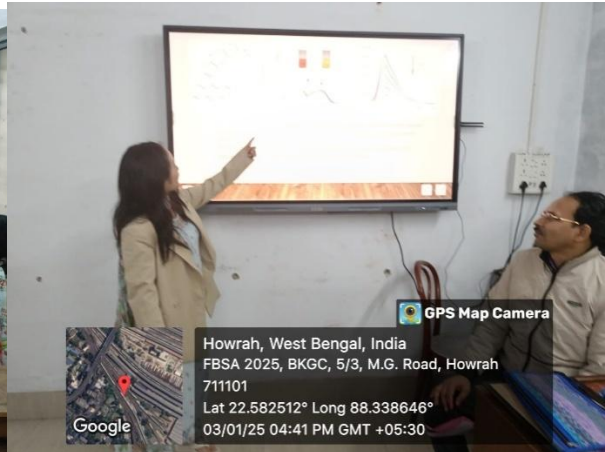
Howrah, West Bengal, India  
FBSA 2025, BKGC, 5/3, M.G. Road, Howrah  
711101  
Lat 22.582512° Long 88.338646°  
03/01/25 04:36 PM GMT +05:30



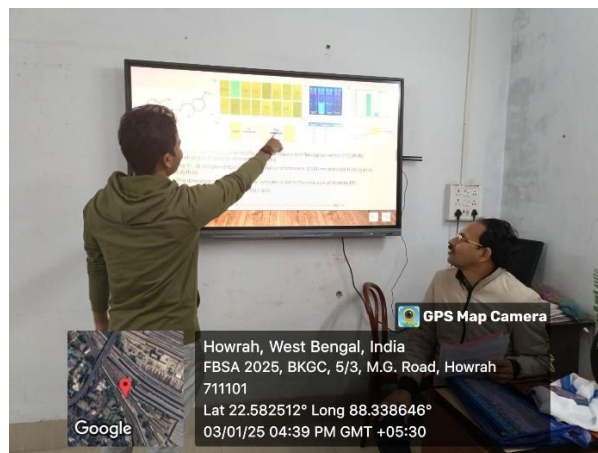
Howrah, West Bengal, India  
FBSA 2025, BKGC, 5/3, M.G. Road, Howrah  
711101  
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Howrah, West Bengal, India  
FBSA 2025, BKGC, 5/3, M.G. Road, Howrah  
711101  
Lat 22.582512° Long 88.338646°  
03/01/25 04:37 PM GMT +05:30



Howrah, West Bengal, India  
FBSA 2025, BKGC, 5/3, M.G. Road, Howrah  
711101  
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03/01/25 04:41 PM GMT +05:30



Howrah, West Bengal, India  
FBSA 2025, BKGC, 5/3, M.G. Road, Howrah  
711101  
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03/01/25 04:39 PM GMT +05:30



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## RESEARCH & DEVELOPMENT CELL, IQAC

### Report on Physical Sciences

Date: 03.01.2025

Place: Bijoy Krishna Girls' College

The International Conference on "Facets of Basic Sciences and Applications" (FBSA 2025) was held at Bijoy Krishna Girls' College, Howrah, on January 3, 2025. The event featured multiple technical sessions, including Session 1: Physical Sciences (Venue: College Auditorium) (Parallel Session) Chaired by Dr. Bappaditya Dey, , Advanced Patterning Senior R&D Engineer, IMEC, Leuven, Belgium.

Prof. Pratap Mondal of Department of Mathematics of Bijoy Krishna Girls' College, Howrah felicitated Dr.



Bappaditya Dey on the occasion.



The session had two oral and three poster presentations.



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The "Physical Sciences" seminar session provided a diverse overview of current research in physics, chemistry, and related fields. Key topics discussed included advancements in materials science, renewable energy technologies, quantum computing, and the exploration of the universe. The session fostered interdisciplinary dialogue and highlighted the crucial role of physical sciences in addressing global challenges.

Session 1, 2 & 3		3:30 p.m. - 5:00 p.m.		
Date and Time	Session	Title of the Paper	Presenters	Session Chair
03/01/25	Session 1: Physical Sciences (Venue: College Auditorium)  (Time: 03:30 PM - 05:00 PM)	Design and Applications of Chitosan- Based Flexible and Easily Retrievable Piezo-responsive Nanocomposite Membrane for Sustainable Wastewater Treatment	Indrajit Mondal, Piyali Halder	<b>Dr. Bappaditya Dey</b>  <b>Felicitation:</b> Dr. Subhradip Das <b>Rapporteur:</b> Dr. Subhradip Das <b>Introducer &amp; Vote of Thanks:</b> Aditi Dutta
		Photo-Responsive Doped Nanostructure Materials for Sustainable Wastewater Treatment and Enhanced Antibacterial Applications	Trishita Hassan, Sucheta Mitra, Shireen Sultana	
		Sintering Temperature and Doping-Induced Modifications in Optical and Dielectric Properties of Nanostructured Materials	Somen Biswas	
		Cholesterol modulates the interaction of sodium salt with negatively charged phospholipid membrane	Ranajoy Das	
		Towards Multifunctional Nanomaterials for Health and Eco-Friendly Applications	Amartya Sau, Neelanjana Bag, Anwesha Mukherjee	
		Structural and Optical Characterization of Palladium Doped ZnO Thin Films Prepared by Silar	Shampa Mondal	
		Distribution of Sensor Nodes within Cluster in Wireless Sensor Network	Raju Dutta	

### Report on Physical Sciences

Date: 04.01.2025

Place: Bijoy Krishna Girls' College

The International Conference on "Facets of Basic Sciences and Applications" (FBSA 2025) was held at Bijoy Krishna Girls' College, Howrah, on January 4, 2025. The event featured multiple technical sessions, including Session 5: Physical Sciences (Venue: Room S-5) (Parallel Session) Chaired by Dr. Nandita Palit, Department of Physics, Bijoy Krishna Girls' College, Howrah.



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Howrah, West Bengal, India

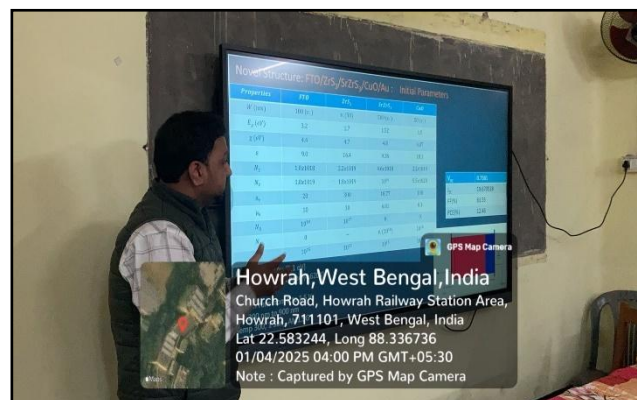
Church Road, Howrah Railway Station Area,

Howrah, 711101, West Bengal, India

Lat 22.582847, Long 88.336734

01/04/2025 03:08 PM GMT+05:30

Note : Captured by GPS Map Camera



Howrah, West Bengal, India

Church Road, Howrah Railway Station Area,

Howrah, 711101, West Bengal, India

Lat 22.583244, Long 88.336736

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Note : Captured by GPS Map Camera

Prof. Sunanda Maity of Department of Physics of Bijoy Krishna Girls' College, Howrah felicitated Dr. Palit on the occasion.

The session had two oral and three poster presentations.

The seminar session on Physical Sciences provided a comprehensive overview of advancements in and recent developments in various Theoretical and applied branches of Physics. Eminent researchers presented their findings, fostering insightful discussions and a deeper understanding of the fundamental principles governing our universe. The session highlighted the crucial role of interdisciplinary research and its potential to address global challenges.

Date	Session	Title of the Paper	Presenters	Session Chair
04/01/25	Session 5: Physical Sciences (Venue: Room S-5) (Parallel Session)  (Time: 1:45 PM - 3:15 PM)	Crystallinity-Dependent Modulation of Physicochemical Properties in Chemically Synthesized ZnMn <sub>2</sub> O <sub>4</sub> Spinel Nanoparticles	Shriparna Roy, Souvik Sau	<b>Dr. Pratap Manda</b>  <b>Felicitation:</b> Dr. Subhradip Das <b>Rapporteur:</b> Dr. Subhradip Das <b>Introducer &amp; Vote of Thanks:</b> Aditi Dutta
		Influence of water/Ethanol mixture on Layer-by-Layer electrostatic self- assembled multilayer ultrathin film of cationic dye Safranin O and a negatively charged polymer Poly- Acrylic Acid: A spectroscopic and atomic force microscopic study	Alapan Pal	
		Cholesterol modulates the membrane- membrane interaction induced by an antimicrobial peptide, NK-2 in phospholipid vesicles	Surajit Das	
		Eco-Friendly SrZrS <sub>3</sub> -Based Perovskite Solar Cells: A High- Efficiency Design and Simulation Study	Abhijit Bar	
		A study on Knotoids of alternating knots LPG Sensing Properties of Al-Doped ZnO Thin Film Prepared by SILAR	Samiran Banerjee Basudeb Roy Chaudhury	



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## RESEARCH & DEVELOPMENT CELL, IQAC

### Report on Computational and Mathematical Sciences

Date: 04.01.2025

Place: Bijoy Krishna Girls' College

The International Conference on "Facets of Basic Sciences and Applications" (FBSA 2025) was held at Bijoy Krishna Girls' College, Howrah, on January 4, 2025. The event featured multiple technical sessions, including Session 4, which focused on "Computational Mathematics." This session is chaired by Dr. Pratap Mondal, Assistant Professor, Department of Mathematics, Bijoy Krishna Girls' College. The session chair is felicitated by Ms. Mayurakshi Jana.

Session 4 provided a platform for researchers and scholars to present their findings on the application of computational techniques in mathematical sciences. Topics discussed included numerical methods, algorithm development, and simulations pertinent to biological data analysis. The session aimed to bridge the gap between theoretical mathematics and practical applications in biological sciences, fostering interdisciplinary collaboration.

The conference also included a poster presentation segment, allowing participants to showcase their research visually and engage in in-depth discussions with peers.

Radha Binod Das has presented a paper on " $\alpha$  admissible cyclic contraction results on probabilistic metric spaces".

Bhaskar Chandra Sarkar has given his presentation on Effects of Radiation on Unsteady MHD Free Convective Flow past a Moving Vertical Plate with Ramped Wall Temperature.

Prasanta Das has delivered his presentation on A mathematical model for parameterizing the fluxes associated with airflow across Khasi-Jayantia hills.

Ajjur Rahaman Mallick has worked on Dynamical Analysis of a Predator-Prey System under Harvesting, Competition and Gestational Delay.

S Indhumathi has briefed her idea on A New forms of Neutrosophic Soft Topological Space via Soft Ideal.

Pratap Mondal has worked on Journey of Logic & Mathematics in the Indian Subcontinent.

Ranen Bhattacharya has discussed on An Overview of Harmonious Graphs in Graph Theory.



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Raju Dutta has delivered his presentation on Chaotic Characteristics and Behavior of Communication with Switching in WSN.

Joy Adhikary has done an excellent work on Finding Biclusters in Dengue Disease Dataset Using Particle Swarm Optimization (PSO) Algorithm.

Glimpses of Trade Opnness and Economic Growth of Srilanka: An Empirical Study is presented by Debjani Mitra.

Optimal Inventory Control for Deteriorating Items with Discounted Cash Flow Approach is presented by Jhantu Paul.

The session is ended with vote of thanks which is delivered by Dr. Samiran Banerjee.





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## RESEARCH & DEVELOPMENT CELL, IQAC

### Report on Technical Session – 6: Allied Subjects

Spanning for more than 90 minutes, this technical session in Room Number U – 2, has accommodated 2 virtual and 5 physical presentation of research papers from various disciplines like Economics, Geography and Psychology. This session is chaired by Dr Debjani Mitra, Assistant Professor, Department of Economics, Bijoy Krishna Girls' College, Howrah.

Dr Samprii Biswas's work on the contributions of service sector in economic growth is presented in online mode.

Dr Santanu Chakraborty has presented a research paper on unemployment in India using ARDL, empirically identifies determining factors of unemployment 2000-2015.

Dr Bhaskar Chaudhuri's work on institutional birth and healthcare infrastructure index, based on regression & residual analysis of NSSO 75th Round (2017-18) indicate North - South disparity, and NE India as a mixed one.

Dr Karabi Mitra has worked on Snakes and snake bites. She has elaborated on the ritual on worshipping a snake Jhankeshwari in villages of Burdwan district. A few cases are shown how snakes are tortured. While delving into Indian Knowledge System, she has explained how Ayurveda in the domain of ethno-botany is helping to treat snake bites as well as other ailments.

Dr Sraboni Chatterjee's work on the comparative study of MNC and GoI employees on achievement motivation issues. It finds how MNC employees act in a highly competitive work environment as compared to GoI employees which have implications on family life.

Mr Ananta Halder has worked on the use of open resources for education through a sample study of B.Ed. students, and found that even if such resources are used, customization of such resources as per the users' needs is a key challenge.

Dr Souvik Das has presented his research on the role of medicinal plants in ancient Indian Ayurvedic medical system as well as their efficacy in disease prevention.

The technical session has ended with a vote of thanks delivered by Dr Debleena Kumar, Assistant Professor, Department of Psychology.



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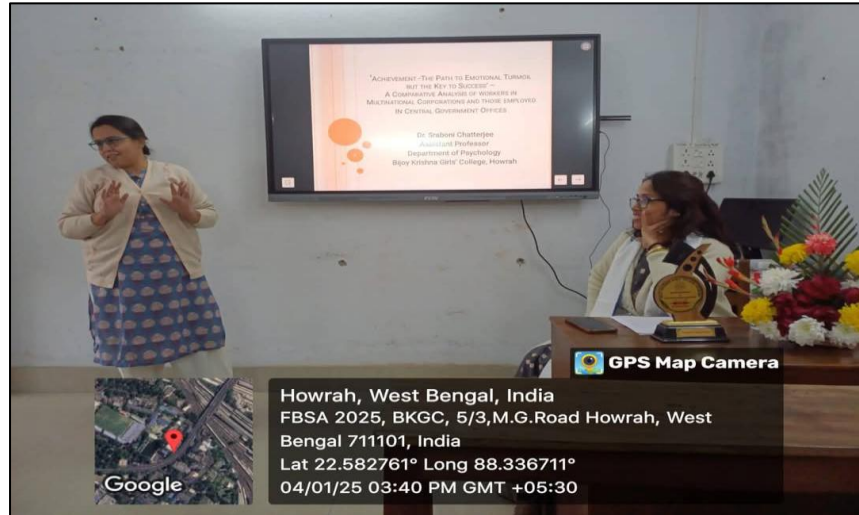


Photo: Paper presentation by Dr Sraboni Chatterjee, Department of Psychology, in the presence of the Session Chairperson – Dr Debjani Mitra

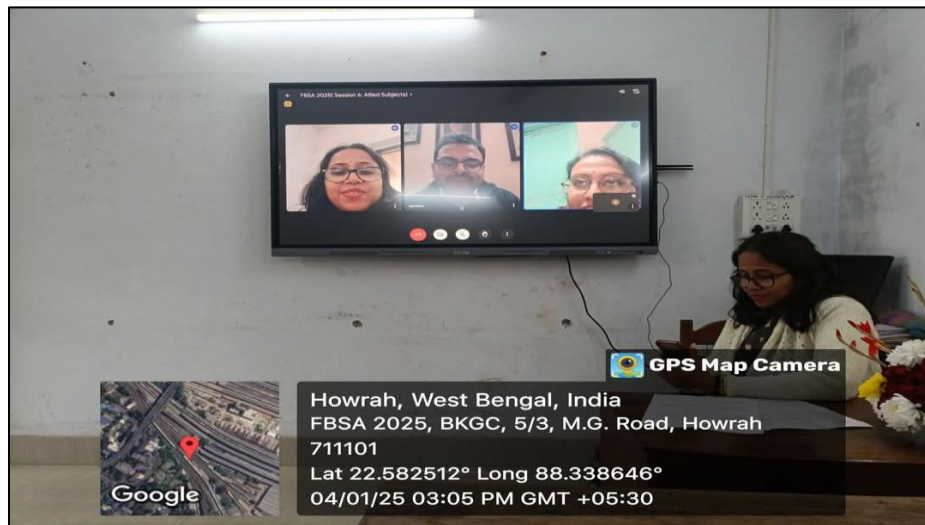


Photo: Participants who have presented research papers in virtual mode



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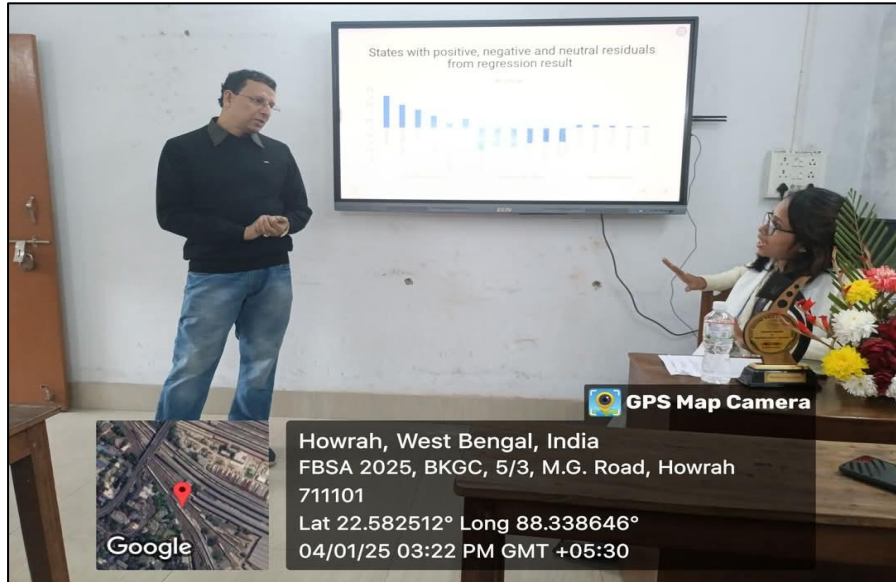


Photo: An academic interaction between the paper presenter Dr Bhaskar Chaudhuri, Department of Geography and the Session Chairperson



Photo: Chairperson, Treasurers, Rapporteur and Participants of the Technical Session



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### 12. Programme Outcome:

The *International Conference on Facets of Basic Sciences and Applications (FBSA 2K25)*, held on 3-4 January 2025, was an enriching and insightful event that brought together experts, researchers, and academicians from various fields of science. The conference aimed at fostering discussions on the latest developments in basic sciences and their transformative applications in the real world.

The event was inaugurated by the Chief Guest, *Dr. Anupam Basu*, Ramanna Chair professor of Jadavpur University, who emphasized the importance of interdisciplinary research in advancing scientific innovations. He highlighted the role of basic sciences in solving global challenges and encouraged further collaboration between academia and industry.

The keynote address was delivered by *Prof. Dr Sudeshna Basu*, Assistant Teaching Professor, Department of Mathematics and Statistics, Loyola University Baltimore Maryland, USA, a distinguished mathematician who spoke on "Mathematics and Politics". Another Keynote address was delivered by *Dr Jaydeb Sarkar*, Professor, Indian Statistical Institute, Statistics and Mathematics Unit, Bangalore, Karnataka and his topic was How Google google?

Plenary Speaker was *Dr Soumitro Banerjee*, Professor, Department of Physical Sciences, Indian Institute of Science & Research, Kolkata, Mohanpur Campus, India and spoke on The Method of Science.

The conference featured several invited speakers, including:

- *Dr Dwaipayan Chakrabarti*, Associate Professor in Soft Matter, School of Chemistry, University of Birmingham, Edgbaston, B15 2TT  
Title: Untangling the puzzle
- *Dr Bappaditya Dey*, Advanced Patterning Senior R&D Engineer, IMEC, Leuven, Belgium  
Title: AI as a Disruptive Technology in Semiconductor Manufacturing

The technical sessions covered a range of topics:

1. *Physical Sciences, Session -1*
2. *Chemical Sciences, Session -2*
3. *Biological Sciences, Session -3*
4. *Computational Mathematics, Session -4*
5. *Physical Sciences, Session -5*



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### 6. Allied Subjects, Session -5

These sessions sparked vibrant discussions, and the conference provided an excellent platform for sharing knowledge and fostering future collaborations in basic sciences and their diverse applications.

### 13. Poster/Brochure/Banner:



**International Conference**  
on  
**FACETS OF BASIC SCIENCES AND APPLICATIONS**  
January 3-4, 2025  
ORGANIZED BY  
R&D CELL, IQAC & DEPARTMENTS OF PURE AND BIO SCIENCES  
BIJOY KRISHNA GIRLS' COLLEGE, HOWRAH  
5/3, Mahatma Gandhi Road, Howrah-711 101  
(In Hybrid Mode)

Accepted papers will be published in an International Journal with ISSN

CALL FOR PAPER	Registration Fees
Submit original research articles on: <ul style="list-style-type: none"><li>• Biological Sciences</li><li>• Chemical Sciences</li><li>• Computational Sciences</li><li>• Mathematical Sciences</li><li>• Physical Sciences</li></ul> Submission Deadline: 15 November, 2024	<b>Author Registration</b> Rs. 2500 for Foreigners Rs. 1200 for Indian Academicians <b>Participation Registration</b> Rs. 2300 for Foreigners Rs. 1000 for Indians

**SOME DISTINGUISHED SPEAKERS:**

 <b>Dr Sudeshna Basu</b> Department of Mathematics and Statistics Loyola University, Maryland USA	 <b>Dr Soumitra Banerjee</b> Department of Physical Sciences IISER, Kolkata	 <b>Dr Dwaipayan Chakrabarti</b> School of Chemistry University of Birmingham	 <b>Dr Jaydeb Sarkar</b> Statistics and Mathematics Unit ISI, Bangalore
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TO REGISTER CLICK HERE	PAYMENT DETAILS
<b>Contact us</b> Email Id: <a href="mailto:fbsa2025@gmail.com">fbsa2025@gmail.com</a> Mobile No: (+91) 8910486818	Canara Bank, Howrah MG Road Branch Account Number: 8660201000001 IFSC: CNRB0008660



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## RESEARCH & DEVELOPMENT CELL, IQAC

### Program Schedule

**INTERNATIONAL CONFERENCE ON FACETS OF BASIC SCIENCES AND APPLICATIONS (FBASA) JANUARY 3-4, 2025**

**PROGRAM SCHEDULE (Day 1: 03/01/2025)**

Reporting and Kit Collection	9.30 a.m. - 10:00 a.m.
Inaugural Session (Auditorium)	10:00 a.m. - 10:30 a.m.
Keynote Address 1	10:30 a.m. - 12:00 noon
High-Tea	12:00 noon - 12:15 p.m.
Invited Talk 1	12:15 p.m. - 1:30 p.m.
Lunch Break	1:30 p.m. - 2:00 p.m.
Invited Talk 2	2:00 p.m. - 3:15 p.m.
Tea Break	3:15 p.m. - 3:30 p.m.
Session 1, 2 & 3	3:30 p.m. - 5:00 p.m.

**INTERNATIONAL CONFERENCE ON FACETS OF BASIC SCIENCES AND APPLICATIONS (FBASA) JANUARY 3-4, 2025**

**PROGRAM SCHEDULE (Day 2: 04/01/2025)**

Plenary Address	10:00 a.m. - 11:30 a.m.
High-Tea	11:30 a.m. - 11:45 a.m.
Keynote address 2	11:45 a.m. - 1:15 pm
Lunch Break	1:15 p.m. - 1:45 p.m.
Session 4, 5 & 6	1:45 p.m. - 3:15 p.m.
Tea Break	3:15 p.m. - 3:30 p.m.
Closing Session	3:30 p.m. - 5:00 p.m.



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### INTERNATIONAL CONFERENCE ON FACETS OF BASIC SCIENCES AND APPLICATIONS (FRSA) JANUARY 3-4, 2025 Detailed Program Schedule

Reporting and Kit Collection, Time: 9:30 AM – 10:00 AM			
Inaugural Session (Auditorium): 10:00 AM – 10:30 AM			
Chief Guest: Dr. Anupam Basu			
Keynote Address			
Date	Time	Keynote Speaker	Session Chair
03/01/2025	10:30 AM – 12:00 NOON	Dr. Sudeshna Basu	Dr. Dwaipayan Chakrabarti
Invited Talk			
03/01/2025	12:15 PM – 1:30 PM	Dr. Dwaipayan Chakrabarti	Dr. Sudeshna Basu
Invited Talk			
03/01/2025	2:00 PM – 3:15 PM	Dr. Bappaditya Dey	Dr. Rupak Bhattacharyya
Plenary Address			
04/01/2025	10:00 AM – 11:30 AM	Dr. Soumitra Banerjee	Dr. Jaydeb Sarkar
Keynote Address			
04/01/2025	11:45 AM – 1:15 PM	Dr. Jaydeb Sarkar	Dr. Soumitra Banerjee

Date and Time	Session	Title of the Paper	Presenters	Session Chair
03/01/25	Session 1: Physical Sciences (Venue: College Auditorium)  (Time: 03:30 PM - 05:00 PM)	Design and Applications of Chitosan-Based Flexible and Easily Retrievable Piezo-responsive Nanocomposite Membrane for Sustainable Wastewater Treatment	Indrajit Mondal, Priyali Halder	Dr. Bappaditya Dey
		Photo-Responsive Doped Nanostructure Materials for Sustainable Wastewater Treatment and Enhanced Antibacterial Applications	Trishita Hassan, Subhrita Mitra, Shreem Saha	
		Sintering Temperature and Dopant-Induced Modifications in Optical and Dielectric Properties of Nanostructured Materials	Somen Biswas	
		Cholesterol modulates the interaction of sodium salt with negatively charged phospholipid membrane	Ranajoy Das	
		Towards Multifunctional Nanomaterials for Health and Eco-Friendly Applications: Structural and Optical Characterization of Palladium Doped ZnO Thin Films Prepared by Sol-gel	Aranya Saha, Neelajana Bag, Anwesha Mukherjee, Shampa Mondal	
		Distribution of Sensor Nodes within Cluster in Wireless Sensor Network	Raju Dutta	

### INTERNATIONAL CONFERENCE ON FACETS OF BASIC SCIENCES AND APPLICATIONS (FRSA) JANUARY 3-4, 2025 Detailed Program Schedule

Date and Time	Session	Title of the Paper	Presenters	Session Chair
03/01/25	Session 2: Chemical Sciences (Venue: Room L-2) (Parallel Session)  (Time: 03:30 PM - 05:00 PM)	CO <sub>2</sub> /N <sub>2</sub> Gas Separation Performance in Mixed Matrix Membranes Containing ZIF-8/Ethylene Glycol (PAA)	Baun Kumar Mondal	Dr. Bidyadhar Mondal
		S-(4-Bis(aryloxy)1-2-hydroxypyridine: An outstanding transition metal ions fluorophore	Ananya Samanta	
		A Brief Review of Quantum Chemical Treatment of Non-Covalent Molecular Clusters	Lazarela Tebering Sherpa	
		A concise review on colorimetric and fluorescent chemosensors for the PO <sub>4</sub> <sup>3-</sup> flocculation efficiency of four bio-flocculants against widely used inorganic flocculants for treatment of kaolinized waste water	Naren Mudi Tanvir Noor	

Date	Session	Title of the Paper	Presenters	Session Chair
03/01/25	Session 3: Biological Sciences (Venue: Room G-7) (Parallel Session)  (Time: 03:30 PM - 05:00 PM)	Species Diversity of Diptera in Coastal Stretch of Mandarmani and Adjacent Area of West Bengal, India	Ankush Mitra	Dr. Papiya Ghosh
		Parasitic Cymothoid isopods of West Bengal coast	Dipankar Ray	
		Purification and Characterization of phosphate dependent glutaminase from isolated mitochondria of <i>Sarcocornia-180</i> yeast cells	Susmit Kumar Chakraborty	
		Studies on polyphenols as herbal anti-diabetic agents in free and encapsulated state in polymeric vehicles	Subhaji Maity	
		Bioethanol production from starch food waste and production enhancement using amylase producing bacteria isolated from soil	Manasi Upadhyay	
		Microvillus Supporting Cells in Olfactory Neuroepithelium of Fish ( <i>Anabas testudineus</i> ) as a Biological Toxin Detecting Physical Stress of Aquatic System	Madhubi Aoch (Sarkar)	
		Structural organization of the olfactory organ of a river catfish, <i>Clinemus Garia</i> (Hamilton, 1822)	Saroj Kumar Ghosh	
Exploring the Archetype of Seed Ontogeny and Maturation in Lentil ( <i>Lens culinaris</i> ): Implications for Crop Improvement	Arunam Mondal			
Genetic variability studies of Cluster bean varieties by RAPD analysis and Optimization and reference of PCR Conditions	Ansha Bajaj			



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### INTERNATIONAL CONFERENCE ON FACETS OF BASIC SCIENCES AND APPLICATIONS (IFBSA) JANUARY 3-4, 2025

#### Detailed Program Schedule

Date	Session	Title of the Paper	Presenters	Session Chair
03/01/25	Session 3: Biological Sciences (Venue: Room G-1) (Parallel Session)  (Time: 02:30 PM - 05:00 PM)	Parasitic Cystostomatid species of West Bengal (India)	Rajni Majumdar	Dr. Papiya Ghosh
		Effect of Seasonal Feeding Patterns of Larvae of <i>Drosophila chlorophaga</i>	Shilpa Mishra	
		LCMS Screening and Molecular Docking of Acetone G.A.M.M.S.L. Rhizome	AMMU S P	
		Application of Nitrogen Fixing Bacteria on the Growth of Green Gram Plant	Rachana Mishra	
		Pathogenicity of <i>Haemophilus influenzae</i> strains: Virulence: A Study of Mortality in Farmed Labeled Fish ( <i>Labeo rohita</i> ) in India	Abhijit Palit	
		Isolation and Characterization of Plant Growth Promoting <i>Aspergillus</i> sp. with Petrioleum degrading property from Rhizospheric Soil of Sundarban Mangrove Region in West Bengal and Their Effect on Growth of <i>Abutilon</i> spp.	Biswajit Saha	
Unraveling the Therapeutic Wonders of Common Indian Herbs: A Scientific Exploration of Their Antioxidant and Physicochemical Properties	Bidyadhar Mandal			

Date	Session	Title of the Paper	Presenters	Session Chair
04/01/25	Session 4: Computational Mathematics (Venue: College Auditorium)  (Time: 1:45 PM - 3:15 PM)	$\alpha$ -admissible type contraction results on probabilistic metric spaces	Radha Bhowal Das	Dr. Jaydeb Sarkar
		Effects of Radiation on Unsteady MHD Free Convective Flow past a Moving Vertical Plate with Ramped Wall Temperature	Bhaskar Chandra Sarkar	
		A mathematical model for parameterizing the fluxes associated with inflow across Kharajganj hills	Prasanta Das	
		Dynamical Analysis of a Predator-Prey System under Harvesting, Competition and Gestational Delay	Apurba Baburam Mallick	
		A New Form of Neutrosophic Soft Topological Space via Soft Ideal	S Indhanathi	
		Journey of Logic & Mathematics in the Indian Subcontinent	Pratap Mondal	
		An Overview of Harmonious Graphs in Graph Theory	Ramesh Bhattacharyya	
		Chaotic Characteristics and Behavior of Commensal with Symbiosis in WSNs	Raju Datta	
		Finding Biclusters in Dengue Disease Dataset Using Particle Swarm Optimization (PSO) Algorithm	Joy Adhikary	
		Glimpses of Trade Openness and Economic Growth of Sri Lanka: An Empirical Study	Debjani Mitra	
		Optimal Inventory Control for Deteriorating Items with Discounted Cash Flow Approach	Bhantu Paul	

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#### Detailed Program Schedule

Date	Session	Title of the Paper	Presenters	Session Chair
04/01/25	Session 5: Physical Sciences (Venue: Room S-3) (Parallel Session)  (Time: 1:45 PM - 3:15 PM)	Cryogenic Deposition Modification of Physicochemical Properties in Chemically Synthesized ZnMn <sub>2</sub> O <sub>4</sub> Spinel Nanoparticles	Shriparna Ray, Souvik Sam	Dr. Somes De
		Influence of water/Ethanol mixture on Layer-by-Layer electrostatic self-assembled multilayer ultrathin film of cationic dye Safranin O and a negatively charged polymer Poly-Acrylic Acid: A spectroscopic and atomic force microscopy study	Alapan Pal	
		Collective modeling of membrane-membrane interaction induced by an entropic force	Sangmit Das	
		Eco-Friendly ZnO-Based Perovskite Solar Cells: A High-Efficiency Design and Simulation Study	Abhijit Bar	
		A study on Kinetics of alternating knots	Sourav Banerjee	
LPG Sensing Properties of Al-Doped ZnO Thin Film Prepared by SILAR	Biswadeb Roy Choudhary			

Date	Session	Title of the Paper	Presenters	Session Chair
04/01/25	Session 6: Allied Subjects (Venue: Room U-2) (Parallel Session)  (Time: 1:45 PM - 3:15 PM)	Achievement -The Path to Emotional Turmoil but the Key to Success -A Comparative Analysis of workers in Multinational Corporations and those employed by Central Government Offices	Seaboni Chatterjee	Dr. Debjani Mitra
		Unemployment in India: A Path towards Amartya Sen's Theory	Santanu Chakraborty	
		Economic Development and the Service Sector of Indian Economy: An Empirical Analysis (1980-1 to 2011)	Sangmita Bhowmik	
		India's growth through the eyes of Solow Model	Meenika Sarkar	
Institutional Barriers and Healthcare Infrastructure in India: A State-Level Analysis of NSSO Data	Bhaskar Choudhury			

### INTERNATIONAL CONFERENCE ON FACETS OF BASIC SCIENCES AND APPLICATIONS (IFBSA) JANUARY 3-4, 2025

#### Detailed Program Schedule

Closing Session (AFTERNOON), Time: 3:30 PM - 5:00 PM				
<b>Valedictory Speech</b> <b>Vote of Thanks</b> <b>Details: Summary of conference proceedings and closing remarks</b>				



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### 15. Pictures (Geotagged )



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