

**ANNUAL REPORT OF
BARASAT GOVERNMENT
COLLEGE**

**PUBLISHED BY
IQAC**

2022-23

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A. MAJOR ACHIEVEMENTS

- To combat the growing trend of student apathy in taking up basic science as a field of study, IQAC had urged the science departments to form a **SCIENCE CLUB** for the promotion and popularization of basic science through creation of popular videos, posters, magazines etc. on scientific personalities and discoveries etc. A science club was successfully set up with 7 science departments and several such activities have been initiated.
- To raise a body of students aware of their community and social responsibilities, the NSS committee of the college has taken up several activities like **SLUM ADAPTATION**, health and literacy awareness programs etc. in the immediate locality of the college.
- IQAC organized several **SEMINARS** on topics like ‘Cyber crime’ (12th September, 2022) and ‘NAAC and AQAR preparation’ (11th January, 2023) to enlighten the teaching faculty of the college to such topical issues. Along with these several seminars on academic interest were also conducted by the departments in collaboration with IQAC.
- The college administration has signed **23 MoU’s** with different academic institutions and social organizations to collaborate and share expertise and knowledge on various academic, social and administrative issues. IQAC encouraged the departments to organize **26 VALUE ADDED/ADD ON COURSES** with the aim of imparting additional skills to students for accessing higher educational facilities and maneuvering the job market.
- A policy has been formulated to identify **SLOW AND ADVANCED LEARNERS** among the students of departments and actions have been devised to help such students achieve their targets.

B. RESEARCH PUBLICATIONS of CALENDAR YEAR 2022

Total Number: 57

Sl. No.	Title of paper	Name of the author/s	Department	Name of journal
1	Bangla Chhotogolpe Behular Nabonirman: Narir Abasthan O Somajbodoler Podochinho	Shreya Ray	BENGALI	EBONG PRANTIK
2	Jotirmoyi Debir Nari Bhabna O Martyer Apswara	Renuka Adhikari	BENGALI	EBONG PRANTIK
3	Nabanna Natak: Samakalin Prekkhit	Renuka Adhikari	BENGALI	TRIPURA THEATER
4	Daini Ek Asahay Narir Jibon Akkhan	Renuka Adhikari	BENGALI	AJKER JODHON
5	Biplobi Narir Kolome Biplabhad: Shantisudha Ghosh O Bimalprativa Debir Bangla Uponyas	Shreya Ray	BENGALI	AJKER JODHAN
6	Nirjon Saraswati: Narir Andhokar Theke Aloy Uttoroner Sadhona.	Shreya Ray	BENGALI	Trisangam International Refereed Journal,
7	Differential transcript expression profiles of susceptible and resistant pigeonpea cultivars at an early time point during Fusarium udum infection	Ghosh S, Purohit A, Hazra A, Mukherjee A, Bhar A, Gupta S, Chaudhuri RK , Chakraborti D	BOTANY	Frontiers in Genetics, Vol- 13
8	Clean gene technology to develop selectable marker-free pod borer- resistant transgenic pigeon pea events involving the constitutive expression of Cry1Ac	Ganguly S, Purohit A, Ghosh S, Chaudhuri RK , Das S, Chakraborti D	BOTANY	Applied Microbiology and Biotechnology, Vol- 106:3051-3067
9	Repetitive Sequences in Monocot MICORNAs – Targets for Future Bioengineering Strategies for Climate Resilient Crops	Sohini Gupta Ganguli , Souradip Basu, Sayak Ganguli	BOTANY	Journal of Environment and Sociobiology, 19(2)
10	A short review on the synthesis of oxazolo/thiazolo/ imidazolocoumarins and their biological activities'	Susanta Patra, Prasanta Patra, Dilip Rout, Sanchaita Adikari, & Dibyendu Shekhar Mahanty	BOTANY and MATH	Synthetic communications, Vol-53
11	Role of Plasmid in Pesticide Degradation and Metal Tolerance in Two Plant Growth-Promoting Rhizobacteria Bacillus cereus (NCIM 5557) and Bacillus safensis	T. Roy, A. Bandopadhyay , C. Paul, S. Majumdar, N. Das	BOTANY	Current Microbiology, Vol- 79(4):106

12	Influence of pesticide-tolerant soil bacteria for disease control caused by <i>Macrophomina phaseolina</i> (Tassi.) Goid and plant growth promotion in <i>Vigna unguiculata</i> (L.) Walp.	Bandopadhyay, A. , Roy, T., Alam, S. Mazumder S, Das N.	BOTANY	Environment, Development and Sustainability, Vol-25:14693-14713
13	Paper: Nati Binodini o Chaitanyalila Abhinay	Debjani Roy Moulik	ENGLISH	Journal: Nibodhata (CARE listed)
14	Premchand's "Godan (The Gift of a Cow)": Shades of Exploitation, Socio-Political Context	Dr. Ambarish Sen	ENGLISH	Journal of the Oriental Institute (print only)
15	Environmental degradation and erosion susceptibility mapping at Ajodhya hill, Purulia, India– a GIS based analysis	Swapan Paul & Chandan Surabhi Das	GEOGRAPHY	Safety in Extreme Environment
16	A worldwide perspective on large carnivore attacks on humans	Giulia Bombieri, Vincenzo Penteriani, Kamran Almasieh, Hüseyin Ambarlı, Mohammad Reza Ashrafzadeh, Chandan Surabhi Das , et al.	GEOGRAPHY	Plos Biology
17	Erosion-accretion pattern in the tidal-rivers of Indian Sundarban in relation to estuarine hydrodynamics	Swapan Paul, Chandan Surabhi Das , Subhamita Chaudhuri	GEOGRAPHY	Continental Shelf Research
18	Ouponibesik Bharatborser Shilpo O Tar Porinoti Onnesone Romeshchandra Dutter Chinta-chetona (pp. 112-122)	Dr. Balaram Das	HISTORY	'Athena' Vol. VI,
19	The New Woman and Cuisine in Colonial Bengal	Urmita Ray	HISTORY	Inclusive, Vol. II, No. 20 Dec 21-Jan 22, pp=106-118
20	Tidal effect in ADM formulation under the foliations of spacetime,	I. Bhattacharyya , S. Ray and A. Pradhan,	MATHEMATICS	Chinese Journal of Physics Vol-77, 1765-1769 (2022)
21	Accelerated motion in general relativity: fate of the singularity	Indranath Bhattacharyya and Saibal Ray	MATHEMATICS	European Physical Journal C
22	A study of McVittie Spacetime in Stationary and Dynamical Regime	Indranath Bhattacharyya (Barasat Govt. Coll.), Saibal Ray (GLA U., Mathura), Maxim Khlopov (Unlisted, FR and Moscow Phys. Eng. Inst. and Southern Federal U.), Riju Nag (Presidency U., Kolkata), Samudra Sundar Nag (Presidency U., Kolkata)	MATHEMATICS	Fortschritte der Physik - Progress of Physics

23	Estimation of Age Replacement Policy when Maintenance Cost is Linear and Nonlinear	Prasanta Paul	MATHEMATICS	Journal of Scientific Research
24	Assessment of egg and milk allergies among Indians by revalidating a food allergy predictive model.	Arghya Laha , Srijit Bhattacharya , Saibal Moitra , Nimai Chandra Saha , Himani Biswas and Sanjoy Podder	PHYSICS and ZOOLOGY	World Allergy Organization Journal, 100639 (2022) 15. IF:4.084
25	Steady states and phase transitions in heterogeneous asymmetric exclusion processes	Atri Goswami, Mainak Chatterjee and Sudip Mukherjee	PHYSICS	Journal of Statistical Mechanics: Theory and Experiment (Institute of Physics, I. F. - 2.234)
26	Influence of PEDOT: PSS Doping on the Performance of Organic Solar Cells	Kriti Ranjan Sahu, Abhijit De	PHYSICS	Biointerface Research in Applied Chemistry, I.F. – 0.25)
27	Viscosity to entropy density ratio (η/s) in nanoliquid	Md Moinul Islam, Alok Kumar De, Deepak Pandit, Balaram Dey, Nazmus Sakib, Srijit Bhattacharya	PHYSICS	Physics and Chemistry of Liquids (Taylor & Francis, I.F. - 1.2)
28	Practical Feasibility of Arago-Biot and Lorentz-Lorenz Theory through variation of Refractive Index of Typical Binary Liquid Mixtures employing Low-Cost Experimental Setup	P Tripathy, P. K. Mandal, Abhijit De , K. S. Sahu	PHYSICS	(2022) Biointerface Research in Applied Chemistry Volume 12, Issue 3, 3762 - 3779.
29	Isospin dependence of nuclear level density at $A \approx 120$ mass region	R Shil, K Banerjee, Pratap Roy, J Sadhukhan, TK Rana, G Mukherjee, S Kundu, TK Ghosh, S Manna, A Sen, R Pandey, A Chakraborty, Deepak Pandit, S Mukhopadhyay, Debasish Mondal, D Paul, C Bhattacharya, S Bhattacharya	PHYSICS	Physics Letters B (Elsevier, I.F. - 4.4)
30	Production of high-energy γ rays in proton- and α induced reactions	Debasish Mondal, S. Mukhopadhyay, Deepak Pandit, Surajit Pal, Pratap Roy, Balaram Dey, Srijit Bhattacharya , A. De, Soumik Bhattacharya, K. Banerjee, S. Kundu, S. Manna, T. K. Rana, R. Pandey, S. R. Banerjee, and C. Bhattacharya	PHYSICS	PHYSICAL REVIEW C 105, 054602
31	Kinetic Exchange Income Distribution Models with Saving Propensities: Inequality Indices and Self-Organised Poverty Level	Sanjukta Paul, Sudip Mukherjee , Bijin Joseph, Asim Ghosh, Bikas K. Chakrabarti	PHYSICS	Philosophical Transactions of the Royal Society A

32	The effect of Sn doping on the structural, electronic and magnetic properties of rutile CrO ₂ : A DFT approach	Sarajit Biswas	PHYSICS	Computational Condensed Matter
33	Quenching of magnetism in NaO ₂ due to electrostatic interaction induced partial orbital ordering	Sarajit Biswas and Molly De Raychaudhury	PHYSICS	Journal of Molecular Modeling
34	Analysis of cross-section, S-factor and thermonuclear reaction rate of ⁸ Li(¹¹ B and ¹⁴ N(¹⁵ O using TALYS and EMPIRE nuclear reaction codes	Satabdi Mondal, Pampa Das, Enakshi Senapati, Deepak Pandit, Balaram Dey, Alokkumar De, Srijit Bhattacharya	PHYSICS	International Journal of Modern Physics E (World Scientific, I.F. - 1.1)
35	Geometry of nonrelativistic string	Sk. Moinuddin, Pradip Mukherjee	PHYSICS	Physics Scripta (Institute of Physics, I.F. - 2.9)
36	Role of quantum fluctuation in inducing ergodicity in the spin glass phase and its effect in quantum annealing	Sudip Mukherjee	PHYSICS	Philosophical Transactions of the Royal Society A (I. F.- 5.0)
37	Rough or crumpled: Phases in kinetic growth with surface relaxation	Sudip Mukherjee and Abhik Basu	PHYSICS	Physical Review E Letter (American Physical Society, I. F. - 2.7)
38	Stiffening or softening of elastic media: Anomalous elasticity near phase transitions	Sudip Mukherjee and Abhik Basu	PHYSICS	Physical Review E Letter (American Physical Society, I. F. - 2.7)
39	Statistical mechanics of phase transitions in elastic media with vanishing thermal expansion	Sudip Mukherjee and Abhik Basu	PHYSICS	Physical Review E (American Physical Society, I. F. - 2.7)
40	Porijayee Shramik	Sreemoyee Ghosh	POLITICAL SCIENCE	Utsa Manush
41	Occupational Health and the Politics of Gender Discrimination	Sreemoyee Ghosh	POLITICAL SCIENCE	Aviskaar: A Xaverian Journal of Research
42	कालिदासकाव्यनाटकेषु वैदिकभाषायाः प्रभावः	Aditi Bhattacharya	SANSKRIT	Journal Of Fundamental and comparative Research
43	বাংলা গোয়েন্দাকাহিনির বিবর্তনের ধারাঃ একটি পর্যালোচনা	Aditi Bhattacharya	SANSKRIT	এবং মহায়া

44	On a collection of (Insects, Acari) some insects and mites from medicinal plants of Ramkrishna Mission, Narandrapur (India: WB, Dist S 24 pgs)	A. Sultana, Sagata Mondal and Salil K Gupta	ZOOLOGY	Acta Entomology and Zoology, p-10
45	A preliminary study of Mites and Insects occurring on plants used as Ethnomedicines collected from different medicinal plant gardens of Narendrapur Campus Ramakrishna Mission (South 24 Parganas, West Bengal)	Anushka Sengupta and Salil Kumar Gupta	ZOOLOGY	Journal of Entomology and Zoology Studies 2022; 10(3): 145-148
46	Implication of KCNJ11 and TCF7L2 gene variants for the predisposition of type 2 diabetes mellitus in West Bengal, India.	Biswa bandhu Bankura, Arup Kumar Pattanayak, Sudakshina Ghosh, Srikanta Guria , Anirban Sinha, Madhusudan Das	ZOOLOGY	Diabetes Epidemiology and Management, Available online 22 February 2022, 100066. Doi : 10.1016/j.deman.2022.100066
47	Mites and insects occurring on some leafy ornamentals and floricultural plants in Howrah and Purba Medinipur districts of West Bengal, with their economic importance	D. Manna, Sagata Mondal and Salil K Gupta	ZOOLOGY	Journal of Entomology and Zoology Studies 2022; 10(4): 45-51
48	Some mites and insects occurring on medicinal plants from medicinal plant gardens located in and around Kalyani, West Bengal	Goutam Ghosal, Sagata Mondal and Salil K Gupta	ZOOLOGY	South Asian Journal of Agricultural Sciences 2022; 2(2): 36-40
49	Biochemical and molecular basis of bacterial bioluminescence and its utilization as a biosensor for the assessment of environmental toxicity, Volume 7, Issue 8	Indrani Banerjee , Angshumitra Paul, Sumana Saha	ZOOLOGY	IJRTI Volume 7, Issue 8 IJRTI2208238 International Journal for Research Trends and Innovation (www.ijrti.org) 1485 - 1494
50	Identification of Larval Eustrongylides (Nematoda: Dioctophymatoidea) sp. from Channa punctata Bloch, 1793 by Morphological and Molecular Techniques	Ivy Kundu & Dipak Ranjan Mandal	ZOOLOGY	Turkish journal of Parasitology 213-218
51	Mites and insects occurring on plants used as spices from South 24 Parganas district of West Bengal, India	Kazi Gulsad Rahaman and Salil K Gupta	ZOOLOGY	Journal of Entomology and Zoology Studies 2022; 10(3): 149-151

52	On a collection of mites and insects occurring on some vegetable crops cultivated in Nerendrapur campus Ramakrishna Mission, West Bengal, India	Payel Manna, Sagata Mondal and Salil K Gupta	ZOOLOGY	South Asian J. Agric. Sci., 2022; 2(2): 48-51
53	Production analysis of composite fish culture in drought prone areas of Purulia: The implication of financial constraint.	Prabhat Kumar Mishra , Akhilesh Parey , Bhaskar Saha , Ayan Samaddar , Sriparna Chakraborty , Anilava Kaviraj , Izabela Nielsen , Subrata Saha	ZOOLOGY	AQUACULTURE (ELSEVIER) 548,737629
54	Performance analysis of machine learning algorithms and screening formulae for β -thalassemia trait screening of Indian antenatal women.	Reena Das, Sarkaft Saleh , Izabela Nielsen , Anilava Kaviraj , Prashant Sharma , Kartick Dey , Subrata Saha	ZOOLOGY	Int J Med Inform.(ELSEVIER) Nov;167:104866.
55	On a collection of mites and insects occurring on edible and wild mushrooms from Mini Sundarbans-Hasnabad areas of North 24 Parganas (West Bengal)	Sriparna Pakira and Salil Kumar Gupta	ZOOLOGY	Journal of Entomology and Zoology Studies 2022; 10(3): 119-121
56	Spider faunal diversity of adjoining areas of Tadoba-Andheri Tiger Reserve and Nagzira-Navegaon National Park, Maharashtra, India.	Sumana Saha & Dinendra Raychaudhuri 2022	ZOOLOGY	World Scientific News, 169 : 55-96.
57	Diversity, distribution and secrets of ant transportation networks	Sumana Saha , Deboleena Bandyopadhyay and Dinendra Raychaudhuri	ZOOLOGY	Journal of Entomology and Zoology Studies 2022; 10(4): 121-135 Received: 12-04-2022 Accepted: 19-05-2022

B. RESEARCH PUBLICATIONS of CALENDAR YEAR 2023

Total Number: 41

Sl. No.	Title of paper	Name of the author/s	Department	Name of journal
1	1947-ER BANGABIBHAJAN: PASHCHIMBANGER BANGLA BHASA EBANG SAHITYER ITIHAS CHARCHAR PRASANGIKATA	Satabdi Sadhu Mondal	BENGALI	Ekusher Dheu
2	PRAK UNISH SHATAKE INGRAJDER BANGLA O ITIHASER CHARCHAY SHASAKER KKHAMATAYAN	Satabdi Sadhu Mondal	BENGALI	LOKOGANDHAR (International Peer Reviewed Journal on Modern Research)

3	Laccase-assisted bioremediation of Pesticides: Scope and challenges	Chandana Paul, Nilasish Pal, Madhumita Maitra & Nirmalendu Das	BOTANY	Mini-Reviews in Organic Chemistry, Vol-20
4	Sacred groves as the source of local medicinal plants and sites of biodiversity conservation in North 24 Parganas, West Bengal	Dibyendu S Mahanty & Shrabana Mazumder	BOTANY and GEOGRAPHY	International J of Plant and Environment Vol-9
5	Physiology of Shade Loving Plants: A Comparative Analysis with Shade Avoiding Plants	Dibyendu Sekhar Mahanty	BOTANY	Indian Journal of Applied and Pure Biology , VO,L38
6	Global transcriptome analysis reveals fungal disease responsive core gene regulatory landscape in tea	Hazra A, Ghosh S, Naskar S, Rahaman P, Roy C, Kundu A, Chaudhuri R K , Chakraborti D	BOTANY	Scientific Reports, Vol-13
7	Study of growth-improving and sporophore-inducing endobacteria isolated from Pleurotus pulmonarius.	Paul, C., Roy, T., Singh, K. Maitra, M and Das, N.	BOTANY	World J Microbiol Biotechnol, Vol-39:349
8	Recent advances in the synthesis of chromenone fused pyrrolo[2,1a]isoquinoline derivatives	S. Bera, A. Maji, S. Patra, D.S.Mahanty , S. Samanta, S.K.Samanta, B. Biswas,P. Patra	BOTANY and MATH	New J of Chemistry, ISSUE 48
9	Determinants of Female Labour Force Participation in Urban India: Does Outdoor Air Pollution Matter?	Kaushiki Banerjee & Arpita Ghose	ECONOMICS	The Indian Journal of Labour Economics
10	Reviewing the issues of Human-carnivore conflict vis-a-vis mitigation approaches of the Indian Sundarban	C S Das , R N Mondal, S Bandyopadhyay	GEOGRAPHY	Environmental Development
11	Governance of Urban Infrastructure in India: Exploring the Approaches, Attributes, and Opportunities Towards Sustainability	Jaydip De	GEOGRAPHY	Global Social Welfare
12	Socio-economic sustainability of urban and peri-urban agriculture in Kolkata Metropolitan Area: A criteria and indicator approach	Shrabana Mazumder	GEOGRAPHY	Transactions of the Institute of Indian Geographers Indian Geographers
13	Nagarkrishi: Kolkata Metropolitan Elakar Ekti Karjakari Bishleshan	Shrabana Mazumder	GEOGRAPHY	Bhugol Swadesh Charcha
14	Brtttakar orthoniti: Sthisil Unnoyoner R o Ek Dhap	Sourama Saha	GEOGRAPHY	Bhugolika

15	On F-convex and Interpolative Hardy-Rogers Type Contraction Maps in I-metric Space	Jayanta Biswas and Sunil Suman	MATHEMATICS	International Journal of Science, Mathematics and Technology Learning
16	On Berinde and upper class functions with cyclic admissible contraction maps in I-metric space	Sunil Suman and Jayanta Biswas	MATHEMATICS	European Chemical Bulletin
17	Nonequilibrium steady states in coupled asymmetric and symmetric exclusion processes	Atri Goswami, Utsa Dey and Sudip Mukherjee	PHYSICS	Physical Review E (American Physical Society, IF: 2.7)
18	Pairing phase transition in an odd-even hot 69Zn nucleus	Enakshi Senapati, Satabdi Mondal, Srijit Bhattacharya , Deepak Pandit, N Dinh Dang, Nguyen Ngoc Anh, LT Quynh Huong, Rajkumar Santra, N Quang Hung, Balaram Dey	PHYSICS	Journal of Physics G: Nuclear and Particle (Institute of Physics, I. F. - 3.5)
19	Enhanced symmetry energy may bear universality of r-process abundances	José Nicolás Orce, Balaram Dey, Cebo Ngwetsheni, Srijit Bhattacharya , Deepak Pandit, Brenden Lesch, Andile Zulu	PHYSICS	Monthly Notices of the Royal Astronomical Society (Oxford Univ Press) IF:4.8)
20	First-principles investigation of the Metal-insulator Transitions In Ti-substituted tetragonal rutile VO ₂	Sarajit Biswas and Molly De Raychaudhury	PHYSICS	Vacuum (Elsevier, I.F. - 4.0)
21	The effect of Cr-substitution on the structural, electronic and magnetic properties of rutile VO ₂	Sarajit Biswas and Molly De Raychaudhury	PHYSICS	Journal of Magnetism and Magnetic Materials (Elsevier, I.F. - 2.7)
22	Alkali cation controlled tuning of the Metal-insulator Transition in Vanadium hollandites	Sarajit Biswas , Pratim Banerjee and Molly De Raychaudhury	PHYSICS	Materials Science and Engineering B (Elsevier, I.F. - 3.6)
23	Correlation-driven metal-insulator transition in Unconventional magnetic metal superoxides	Sarajit Biswas , Pratim Banerjee and Molly De Raychaudhury	PHYSICS	Materials Research Bulletin (Elsevier, I.F. - 5.4)
24	Energy momentum tensor of a non-minimally coupled scalar from the equivalence of the Einstein and Jordan frames	Sk. Moinuddin, Pradip Mukherjee , Anirban Saha, Amit Sinha Roy	PHYSICS	The European Physical Journal C (Springer, I.F. - 4.4)
25	Noise cross correlations can induce instabilities in coupled driven models	Sudip Mukherjee	PHYSICS	Physical Review E (American Physical Society, IF: 2.7)
26	colleger online pothon pathon....poruara	Sreemoyee Ghosh	POLITICAL SCIENCE	UTSO MANUSH, bigyan somaj o sonscriti bisoyok potrika

27	somokalin bharote.....prasongikotha	Sreemoyee Ghosh	POLITICAL SCIENCE	ITI KOTHA
28	Nagzira: bidorver sobuj phusphus	Jayati Ghosh	ZOOLOGY	এখন আরণ্যক' পত্রিকা , pp-30-35
29	"ওলিয়ানডার হক মথের রূপান্তর"	Jayati Ghosh	ZOOLOGY	এখন আরণ্যক' পত্রিকা , pp-62
30	অস্তিত্ব সংকটে নীল পাহাড়ের রাজা	Jayati Ghosh	ZOOLOGY	Bigyan Anneswak, vol.20: issue-1, pp-25
31	Assessment Of Inflammatory Cells In The Exudate Collected From Swim Bladder Of Rohu (Labeo Rohita).	Guria Srikanta , Middyia O, Hossain A B and Saha D.	ZOOLOGY	Bull. Env.Pharmacol. Life Sci., Vol 12 [9] August 2023: 48-53
32	Assessment of air quality in different regions of Kolkata before and during COVID-19 lockdown: A blessings behind the ruthless curse	Jotishree Kolay, Indrani Banerjee, Sumana Saha.	ZOOLOGY	National Journal of Multidisciplinary Research and Development, 2023: 8(2):74-77
33	Assessment of the present state and future fate of river saraswati, india: water quality indices and forecast models as diagnostic and management tools	Sasanka Pramanik,B255:B263 Jayanta Kumar Biswas, Anilava Kaviraj, and Subrata Saha	ZOOLOGY	CLEAN Soil Air Water (WILEY), 51 (4): 2200321
34	Studies on the Blood Samples of Gallus domesticus in Singur, Hooghly Districts of West Bengal identifies Prevalence of Haemosporidian Parasites	Souvik Khanra, Chirandeep Dey, Jayati Ghosh	ZOOLOGY	International Journal of Scientific Research in Biological Sciences Vol.10, Issue.4, pp.01-06
35	Hemocyte variations with emphasis to granulocytes and plasmacytes in grasshoppers collected from the surrounding areas of Pench Tiger Reserve and Nagzira National Park.	Srikanta Guria	ZOOLOGY	Indian J. Applied & Pure Bio. 38(3), 1220-1227.
36	Effect of lead (Pb) toxicity on hemocytes of freshwater molluscs, Bellamya bengalensis with emphasis to cell aggregation.	Srikanta Guria	ZOOLOGY	Indian J. Applied & Pure Bio. 38(3), 1434-1440.
37	A comprehensive approach to health assessment of fish population using head kidney derived macrophages (HKM) and macrophage aggregates (MA) from rohu (Labeo rohita) and tilapia (Oreochromis sp.): the potentially sensitive biomarkers of contaminant exposure and several environmental stressors.	Srikanta Guria	ZOOLOGY	Indian J. Applied & Pure Bio. 38(3), 1502-1509.

38	Diversity of leaf chafer beetles (Rutelinae: Scarabaeidae: Coleoptera) of Jaldapara Wildlife Sanctuary, Alipurduar, West Bengal, India	Sumana Saha , Soumodip Das and Dinendra Raychaudhuri	ZOOLOGY	International Journal of Entomology Research, Volume 8, Issue 9, 2023, Page No. 37-41
39	Tortoise Beetles (Cassidinae: Chrysomelidae): Their diversity, abundance & host preference in the forests of Dooars, 'West Bengal, India	Sumana Saha , Pratik Halder and Dinendra Raychaudhuri	ZOOLOGY	WSN 182 (2023) 115-132
40	Cicadas (Hemiptera: Cicadidae) of Buxa Tiger Reserve, a forest of Dooars in the foothills of Eastern Himalaya, West Bengal, India	Sumana Saha , Rinika Ghosh and Dinendra Raychaudhuri	ZOOLOGY	World Scientific News, 177 : 103-117
41	Diversity and distribution of dragonflies and damselflies (Order: Odonata) in forested & urban areas of North and South 24 Parganas & Kolkata Districts of West Bengal, India	Sumana Saha , Soumik Chowdhury and Dinendra Raychaudhuri	ZOOLOGY	WSN 184 (2023) 103-129

**C. BOOKS/CHAPTERS PUBLISHED/PAPERS IN CONFERENCES
Calendar Year 2022**

Total number: 20

Sl. No.	Name of the teacher	Title of the book/chapters published/conference	Title of Paper
1	N. C. Karmakar	HBT Botany Practical (CC BT 05)	-
2	C.J. Kumar., L. Manjunath.,S. Ghosh., S. Ganguli., R. Kundu Chaudhuri and D. Chakraborty	Genomic Designing for Abiotic Stress Resistant Pulse Crops	-
3	T. Roy., A. Bandopadhyay., C. Paul., S. Majumdar and N. Das	Heavy metal tolerance and pesticide degradation by two soil bacteria isolated from agricultural field of West Bengal, India- a bioremediation approach in Slovak Environment Agency, International conference Contaminated Sites	-
4	S. Ganguli., R.K. Chaudhuri and D. Chakraborty	Strategies and Achievements In Genetic Methods and Tools for Managing Crop Pests	Genetic Improvement of Pigeonpea (Cajanus cajan (L.) Millsp.) for Insect Resistance
5	S. Basu., S.Gupta., K. Das., S.S. Bagchi., S. Ganguli	Indigenous Traditional Knowledge	Tribal ethnomedicine: a rich source for future drugs
6	Kaushiki Banerjee and Ghose, A	Chakraborty, C. and Pal, D. (Ed.) Environmental Sustainability, Growth Trajectory and Gender: Contemporary Issues of Developing Economies	An Analysis of the Impact of Environmental Degradation On Female Health Status and Their Labor Force Participation Rate in Urban India: A Simultaneous Panel Approach
7	Chandan Surabhi Das	NSOU, Regional Problems of India (English)	-
8	Sourama Saha	Poribesh Bhugoler Rooprekha	-
9	Dr. Balaram Das	Bangla Sahitya : Desh, Kal O Samajer Prekshite, Vol. III: Edited by Tapan Mondal, Dipankar Mollik, Tapas Pal	Jyotirindranath Thakur o Tar Jatiyo-Chetonar Unmesh (pp 217-224)
10	Dr. Balaram Das	Banglar Itihas Anweshan, Vol. –I	Romesh Chandra Dutta : Ouponibeshik Bharatborsher Durvikkho, Karon O Protikar (pp.264-271)
11	Madhuchhanda Bhattacharyya	Relativism And Realism	-
12	Debashree Dutta	Paschatya Darshan	-
13	Srijit Bhattacharya	Understanding Nuclear Physics in Proc. DAE Symposium of Nuclear Physics	Radiative decay width of the Hoyle state through $^{12}\text{Cp},\text{p}\gamma\text{-}\gamma$ reaction,

14	Srijit Bhattacharya	Understanding Nuclear Physics in Proc. DAE Symposium of Nuclear Physics	Role of photon strength function models in describing high-energy γ -ray spectra
Sl. No.	Name of the teacher	Title of the book/chapters published/conference	Title of Paper
15	Aniruddha Das	Mahatma Gandhi : His Life and Ideas	Gandhi on Education : Relevance of Nayee Talim in indian Society
16	Antara Banerjee	সম্পদার্থী (সম্পাদিত পুস্তক)	-
17	Jayati Ghosh	In S. Magdum, H. D. Makne, R. V. Salunkhe and V. Manjramkar (Eds.), Advances in Animal Science (Volume I, pp.74-83) Bhumi Publishing House	A preliminary survey on the possible mosquito oviposition sites in Naihati, North 24 parganas, West Bengal during monsoon and post monsoon period.
18	Srikanta Guria	Recent Development of Chemical Research being Implemented in Biology and Medicine Chapter - 5	Metals in Islet Function: A Current Understanding of Pathogenesis in Diabetes.
19	Salil.K.Gupta	Plant Associated Mites Of North East India	-
20	Srikanta Guria	Proceedings of the Annual National Conference on Sustainable Ecosystems, Aquaculture, Fisheries and Fisherfolk [ANCOSEAFF 2022], P-181-187	Environmental Contaminants Influencing Morphology and Function of Chief Immune Effector Cells in Freshwater Molluscs: The Biomarkers of Health of Aquatic Ecosystem.

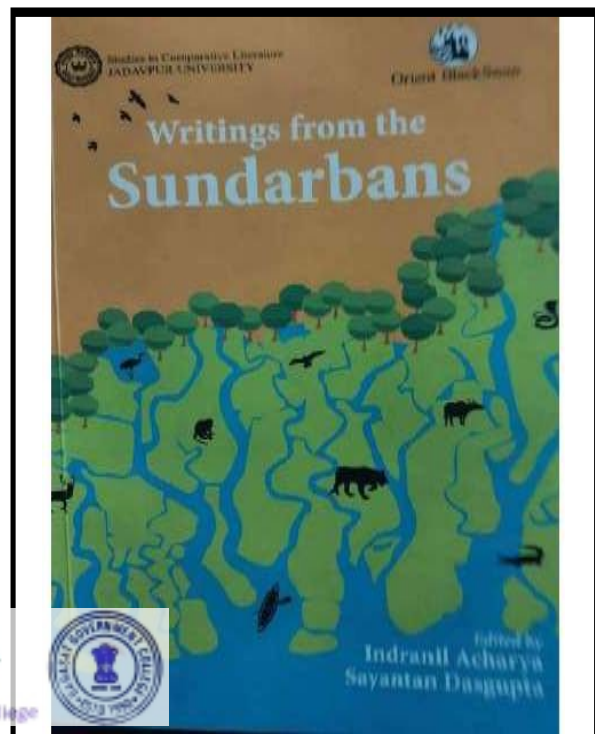
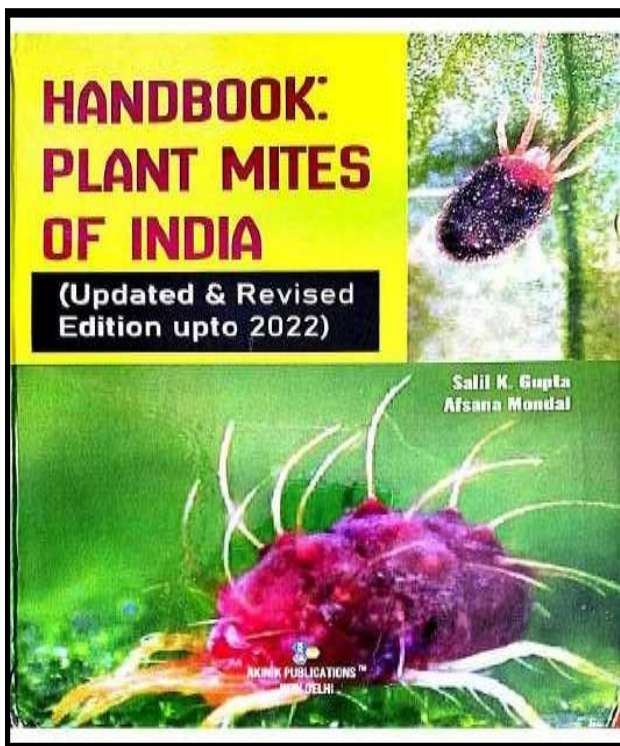
C. BOOKS/CHAPTERS PUBLISHED/PAPERS IN CONFERENCES Calendar Year 2023

Total number: 25

Sl. No.	Name of the teacher	Title of the book/chapters published/conference	Title of Paper
1	Nivedita Chakraborty Dutta	Bibhutibhushan Bandyopadhyayer Sindurcharan"Ameya Aviyatra'	-
2	M. Halder. And S. Jha	Medicinal Plants: Biodiversity, Biotechnology and Conservation. Sustainable Development and Biodiversity, Vol 33	-
3	M. Halder and S. Roy	Medicinal Plants: Biodiversity, Biotechnology and Conservation	Current Status of Metabolic Engineering of Medicinal Plants for Production of Plant-Derived Secondary Metabolites
4	A. Mukherjee., D. Chakraborty, S.R. Das and N. Das	Application of Medicinal Plants Against Ovarian Cysts-A Review . Shrivastava, R., Singh, S., Barwant, MM and Singh, B.(Eds.).	Hand Book of Medicinal Plants in Health and Diseases

5	N. C. Karmakar	HBT Botany Practical (CC BT 13)	-
6	M. Halder., S. Jha	Medicinal Plants: Biodiversity, Biotechnology and Conservation	The Current Status of Population Extinction and Biodiversity Crisis of Medicinal Plants
7	M. Halder., S. Jha	Medicinal Plants: Biodiversity, Biotechnology and Conservation	Medicinal Plants and Bioactive Phytochemical Diversity: A Fountainhead of Potential Drugs Against Human Diseases
8	M. Halder., R. Bose., S. Jha	Medicinal Plants: Biodiversity, Biotechnology and Conservation	The Potential Role of Medicinal Plants, Traditional Herbal Medicines, and Formulations to Overcome SARS-CoV-2 Induced Health Crisis
9	A. Mukherjee., A. Hazra., D. Sinha., P. Cheguri., Shruti H.b., S. Ghosh., N. Bomma., R.K. Chaudhuri., P.I. Gangashetty and D. Ghosh	Compendium of crop genome Designingfor Neutraceuticals	Grain micronutrients in Pigeonpea: genetic Improvement Using Modern Breeding Approaches
10	A. Purohit.,S. Ghosh., R. K. Chaudhuri and D. Ghosh	Plant Stress Mitigator	Biological control of Fusarium Wilt in Legumes
11	Kaushiki Banerjee and Ghose, A	Chakraborty, C. and Pal, D. (Ed.) Gender Inequality and its Implications on Education and Health	"Investigating the Role of Air Quality and the Nexus Between Female Health Status and Their Labor Force Participation Rate: Evidence From Rural India"
12	Pritam Bandyopadhyay	Writings from the Sunderbans	The Immersion March
13	Chandan Surabhi Das	Geotectonics & Geomorphology (Bengali)	-
14	Jaydip De	The Route Towards Global Sustainability	Rethinking Environmental Governance: Exploring the Sustainability Potential in India
15	Shrabana Mazumder	Biological and Environmental Hazards, Risks, and Disasters	Mangroves as coastal rainforests: imminent threats, hazards, and changing status of ecosystem services;
16	Sourama Saha	Prakritik Sampad, Paribesh o Danda:Sampad Bhugoler Ruparekha	-
17	Balaram Das	Banglar Jatiotabad 1800-1971 (Ed by Goutam Mukherjee & Samar kantu Chakraborty	Jatiyatabad O Karmojoger Sandhane Jyotirindranath Thakur : Prasanga 'Geeta rahasya' (pp 143-152)
18	Srijit Bhattacharya	Understanding Nuclear Physics	Experimental Details for a Typical Nuclear Physics Experiment
19	Antara Banerjee	পরিবেশ ও মানুষঃ সেকাল একাল (লিখিত গ্রন্থ)	-

20	Salil.K.Gupta	Handbook: Plant Mites Of India	-
21	Srikanta Guria and Ali Rahit	Research in Biomedical, Healthcare and Pharmaceutical Science, (1) 122 – 127	Alteration of hemocyte-mediated cell assemblage and aggregation due to pyknosis by exposure of arsenic and mercury may affect “encapsulation response” in edible mud crab (Scylla sp.),
22	Srikanta Guria, Ohidul Middy, Debrina Saha, Asik Billa Hossain and Samar Chattopadhyay	Advances in Science and Technology Volume II , Page 1 -5	Viability Assay of Rat Peritoneal Macrophages by Arsenic Trioxide (ATO): The Possible Future Prospects of Nanomedicine Delivering Arsenic Trioxide (ATO) For Disease Therapy,
23	Srikanta Guria	Frontiers in Life Science Volume X, Page 57-61	Characterization and Assessing of Phagocytosis Study of Hemocytes in Insects (Orthoptera) Collected from Murti and Adjacent Areas (Dooars), West Bengal: A Possible Biomarkers of Health of Insects and Environmental Pollution Research
24	Adrija Chaudhuri	Ghnoram Dharmamangal : Rarh Banglar Antyaja Japoner Itibritti	-
25	Kisalaya Jana	Bangla Adventure Kahinir Tattwatalash	-



D. AWARDS RECEIVED by FACULTY

(2022 - 2023)

Total Number: 05

Sl. No.	Name of Awardee	Name of the Award/ recognition	Name of the Awarding body
1	Dr. Samar Chattopadhyay, Principal, Barasat Govt College.	Gyan Probhakar Award 2022, for contribution in the field of education and allied subjects	Governing Council of The Antioxidant Society of India, 04.09.2022
2	Dr. Somaditya Dey, Assistant Professor in Zoology, Barasat Govt College.	Long Term ICMR-DHR International Fellowship for Young Indian Bio-medical Scientists	National Institutes of Allergy and Infectious Diseases, National Institutes of Health, Rockville, USA, 15th March, 2023-14th March, 2024.
3	Dibyendu Sekhar Mahanty, Assistant Professor in Botany, Barasat Govt College.	Best Oral Presentation	International Conference on Environment, Forestry and Sustainable Agriculture Paper presentation organized by St. Xavier's College, Ranchi. 14-16 November 2022.
4	Dr. Srikanta Guria Assistant Professor in Zoology, Barasat Govt College.	1st position in oral presentation in Two-day National Seminar on Recent Trends in Biochemistry and Molecular Biology	Department of Chemistry, Zoology and Microbiology In collaboration with IQAC, Rishi Bankim Chandra College, Naihati. 27-28 April 2023.
5	Dr. Balam Das, Assistant Professor in History, Barasat Govt College	Active Programme Officer Award 2022-2023 for NSS Activity	NSS Cell, West Bengal State University, 22nd May 2023



E. COLLABORATIVE WORK & MOU'S SIGNED BY THE INSTITUTION 2022-23

Total number: 45

SL.NO.	ORGANISATION	ACTIVITIES
1	Variable Energy Cyclotron Centre, Kolkata, India	Collaborative Research
2	Department of Zoology, University of Calcutta	Collaborative Research & Publications
3	Department of Agricultural Biotechnology, IRDM Faculty Centre, Ramakrishna Mission Vivekananda Educational and Research Institute Narendrapur, Kolkata	Collaborative Research & Publications
4	Gour Banga University, WB	Collaborative Research & Ph.D. Supervisor
5	IIT Madras	Collaborative Research & publication
6	IEST, Shibpur	Collaborative Research & publication
7	Dept of Microbiology St. Xavier College, Kolkata	Collaborative Research & Ph.D. Supervisor
8	P K College, Contai, University of Calcutta	Collaborative Research & Publications
9	Dept of Physics, Bankura University	Collaborative Research & Ph.D. Supervisor
10	Saha Institute of Nuclear Physics	Collaborative Research
11	Bhatter College, Dantan	Collaborative Research & Publications
12	IIT, Guwahati	Collaborative Research & Publications
13	Egra SSB College, Egra	Collaborative Research & Publications
14	MoU with Barasat Municipality	Organizing different awareness programs in the area of Saradapally, the Adopted Slum.
15	MoU with Barasat College	Sharing of seminars, talks, teachers/students exchange/publications, conducting certificate course, add on course, and value added course
16	MoU with Netaji Subhas Open University (NSOU), Barasat Government College Centre	Room sharing for office work of NSOU center, Infrastructure sharing (Class rooms, Laboratories), conducting teaching, Examination, laboratories work, faculties involment for class teaching, examination.

17	MoU with DATA-Q , Barasat Centre	Soft skill computer training programme for students
18	MoU with Maulana Azad College, Kolkata	Sharing of seminars, talks, teachers/students exchange/publications, conducting certificate course, add on course, and value added course
19	MoU with Ramakrishna Sarada Mission, Vivekananda Vidyabhavan	Sharing of seminars, talks, teachers/students exchange/publications, conducting certificate course, add on course, and value added course
20	MoU with Bidhannagar College, Kolkata	Sharing of seminars, talks, teachers/students exchange/publications, conducting certificate course, add on course, and value added course
21	MoU with Know Your Neighbour, Kolkata	Joint research-project & publication, Youth monitoring programme, Joint execution of Heritage, Food, Science walks with students, any other joint venture for academic enrichment
22	MoU with Purbasa Eco Helpline Society, Sundarban	Awareness activities and organizing various programmers including conference, seminars, study tours, field visit and other awareness activities.
23	MoU with Integrated Institute For Advanced Research And Information (IIARI)	Organizing value added Courses/Certificate courses / Add-on Courses, faculty exchange, internship course, organizing environmental awareness and gender sensitization programmes.
24	MoU with Institution of Education (PG) for Women, Chandernagore	Sharing of seminars, talks, teachers/students exchange/publications, conducting certificate course, add on course, and value added course
25	MoU with Vivekananda College, Madhyamgram	Sharing of seminars, talks, teachers/students exchange/publications, conducting certificate course, add on course, and value added course
26	MoU with Post Graduate Government Institute for Physical Education, Banipur	Sharing of seminars, talks, teachers/students exchange/publications, conducting certificate course, add on course, and value added course
27	MoU with P. R. Thakur Government College, Thakurnagar	Sharing of seminars, talks, teachers/students exchange/publications, conducting certificate course, add on course, and value added course
28	MoU with Madhyamgram Municipality, Madhyamgram	Joint involvement towards local area development and urban planning, Collection and Management of solid and liquid wastes, Organization of social awareness programme, promotional activities by students, Exchange of information on urban development, environment monitoring, population etc
29	MoU with Sarojini Naidu College for Women, Kolkata	Sharing of seminars, talks, teachers/students exchange/publications, conducting certificate course, add on course, and value added course
30	MoU with Taki Government College, Taki, North 24 Parganas	Sharing of seminars, talks, teachers/students exchange/publications, conducting certificate course, add on course, and value added course
31	MoU with Kanyashree College, Kolkata	Sharing of seminars, talks, teachers/students exchange/publications, conducting certificate course, add on course, and value added course
32	MoU with Sree Chaitanya College, Habra	Sharing of seminars, talks, teachers/students exchange/publications, conducting certificate course, add on course, and value added course

33	MoU with Government College of Education, Banipur	Sharing of seminars, talks, teachers/students exchange/publications, conducting certificate course, add on course, and value added course
34	MoU with Barasat Municipality, Barasat	Joint involvement towards local area development and urban planning, Collection and Management of solid and liquid wastes, Social awareness programme, Exchange of information on urban development, environment monitoring, population etc
35	MoU with St. Xavier's College, Burdwan	Sharing of seminars, talks, teachers/students exchange/publications, conducting certificate course, add on course, and value added course
36	MoU with Swami Vivekananda University, Sewli, Telinipara	Sharing of seminars, talks, teachers/students exchange/publications, conducting certificate course, add on course, and value added course
37	Chittaranjan National Cancer Institute, Kolkata	Collaborative Research & Publications
38	Jaipuria College	Collaborative Research & publication
39	Department of Physics & Astronomy, University of the Western Cape, South Africa	Collaborative Research
40	Dept. of Zoology, Ramakrishna Mission Vidyamandira, Belur Math, Howrah, West Bengal	Collaborative Research & Publications
41	Maulana Azad College, Kolkata	Collaborative Research & publication
42	CSIR IHBT Palampur	Collaborative Research & publication
43	Charotar University, Gujrat	Collaborative Research & publication
44	LMVR, National Institutes of Health, MD, USA	Collaborative Research & Publications
45	MoU with Swayam, Kolkata	Conducting gender sensitization workshops, mural painting on college walls, assisting in gender audit



Ahatterjee
Principal
Barasat Government College

BANKURA UNIVERSITY Research Office					
Dr. Bappu Das Research Co-ordinator (Addl. Charge) Email: dasbapu@bankurauniv.ac.in		Main Campus (Beside NH-60), Bankura Block-II, P.O. Pirandarpur, Dist.: Bankura, PIN: 722155 (W.B)			
RefNo: BKU/RO/2021/099_1		Date: 28/09/2021			
To: Dr. Srijit Bhattacharya, Associate Professor, Postgraduate Department of Physics, Barasat Government College.					
Subj: Allotment of the Ph.D. candidate(s) for admission to the Ph.D. Programme in Physics for the Academic Session 2020-21.					
Sir/Madam, As per the resolution of the meeting of the Board of Research Studies in Physics held between /on 09/08/2021 the undersigned is pleased to inform you that the following candidate(s) for the Ph.D. Programme in Physics of Academic Session 2020-21, are allotted under your supervision as per the Ph.D. Regulations of Bankura University.					
The details of the allotted candidate(s) are as follows:					
Sl. No.	Name of candidate	Course	Title of the Research Topic	Name of Supervisor with Designation, Institution, Email and Contact Number	Name of Expert of RAC with Designation, Institution, Email and Contact Number
1.	ENAKSHI SENAPATI	URI	THERMODYNAMIC PROPERTIES OF ATOMIC NUCLEI AND ITS IMPLICATION IN ASTROPHYSICAL REACTION CROSS-SECTION	Dr. Balaram Das, Assistant Professor, Bankura University, drb.balaram@gmail.com , Phone No: 9123394154 And Dr. Srijit Bhattacharya, Associate Professor, Postgraduate Department of Physics, Barasat Government College, Kolkata-700124 srijit_bha@gmail.com , Phone No: 9836399010 (Joint Supervisor)	Dr. Vijay Shanker Pandit, Outstanding Scientist, Retired Senior Professor, Variable Energy Cyclotron Centre, 1/AF Bidhan Nagar, Kolkata-700064 vsPandit17@gmail.com



For your kind information and necessary action.

**F. VALUE ADDED/ ADD ON COURSES OFFERED
(2022-23)**

Total Number: 27

Sr. No.	Name of Value added / Add on course offered by the Institute	Course Code	Period	Number of Students
1	Understanding India	BGCH/UI/VAC/2022-23	11-10-2022 to 21-10-2022	146
2	Post Covid Awareness Programme	BGCCMVAC001/2022	11-10-2022 to 17-10-2022	36
3	Value added course on "Effects & Consequences of Thermodynamics on Living Beings"	BGCPHSVAC001/2022	12-10-2022 to 19-10-2022	38
4	Study of Macrofungi, Mushroom Cultivation and Plant Diseases	BGCBOTVAC001/2022	14-10-2022 to 20-10-2022	100
5	Recent Development in Mathematical Computing	BGCMTMVAC001/2022	11-10-2022 to 18-10-2022	76
6	A Short Journey On Marketing & Communication Skill	BGCBAGVAC001/2022	11-10-2022 to 21-10-2022	79
7	India's Role in the World Today[Political and Economic]	BGCPLSVAC001/2022	12-10-2022 to 18-10-2022	50
8	Study of animal diversity in North Bengal and South Bengal in specific areas	BGCZOOERC001/2022-23	12-13.11. 2022, 20 .11.202 27 .11 2022, 18 .12. 2022, 05.02. 2023	51
9	Ethics and Values in Ancient Indian tradition	BGCPHIVAC001/2022	11-10-2022 to 16-10-2022	80
10	নাটক, চিত্রনাট্য ও সংবাদ ভাষ্য রচনা	BGCBNGVAC001/2022	12-10-2022 to 20-10-2022	100
11	Advanced Field Survey Techniques	Geo/BGC/AO/Field Survey/22-23	09-03-2023 to 14-03-2023	51
12	Applied Field Research Methods	Geo/BGC/AO/Research Methods/22-23	15-03-2023 to 18-03-2023	44
13	Collection, Preservation, Display & Cataloguing of Museum Specimens	BGCZOOADON001/22-23	05-06-2023 to 12-06-2023	44

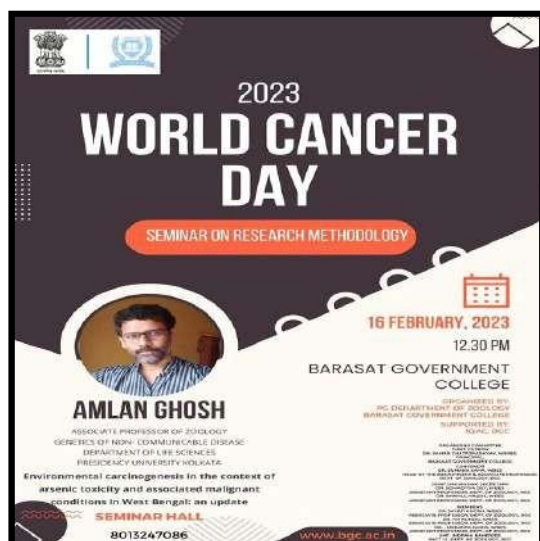
14	Insect diversity, haemocyte diversity and pollution	BGCZOOVAC002/ 2022-23	13 .06 2023, 19.06. 2023, 21.06. 2023, 27 -28.06. 2023	51
Sr. No.	Name of Value added / Add on course offered by the Institute	Course Code	Period	Number of Students
15	Quick Mathematics: a preparatory course for various competitive exams	BGCMTMAO001/ 22-23	26-06-2023 to 01-07-2023	64
16	A Complete Practical Guide Course on Human Blood Cell Count, Hemoglobin Estimation and Interpretation of Diseases	BGCZOOVAC001/ 22-23	01-02-2023 to 31-05-2023	45
17	Applied Statistics & Econometrics	BGC/ECO/01/VAC	05-06-2023 to 16-06-2023	29
18	Water Pollution and Analysis	BGCCEMVAC001 /22-23	07-06-2023 to 13-06-2023	19
19	Philosophy: A Life Skill	BGCPHIVAC001/ 22-23	07-06-2023 to 23-06-2023	72
20	Performing Arts in Sanskrit	BGCSANVAC001/ 22-23	09-06-2023 to 23-06-2023	53
21	Bangalir Hensel	BGCBNGVAC001 /22-23	15-06-2023 to 23-06-2023	84
22	Environmental Education and Sustainable Development	BGCGEOVAC001/ 22-23	14-06-2023 to 26-06-2023	24
23	Beyond Literary Texts: The Expanding Horizons	BGCENGVAC001/ 22-23	16-06-2023 to 26-06-2023	36
24	Individual: Rights & Laws (Indian Context)	BGCPLSVAC001/ 22-23	16-06-2023 to 23-06-2023	42
25	Social Awareness & Obligations of an Indian Citizen	BGCBAGVAC001 /22-23	12-06-2023 to 28-06-2023	30
26	Cultural Heritage of India	BGCH01VAC/22- 23	12-06-2023 to 23-06-2023	35
27	Techniques on Biodiversity and Plant Resource Utilization	BGCBOTVAC001/ 22-23	22-06-2023 to 27-06-2023	97
28	Cultural Heritage of India-Medieval Period	BGCH02VAC	01-11-2023 to 08-11-2023	50

G. SEMINARS CONDUCTED BY THE COLLEGE 2022-23

Total number: 18

Sl. No.	Name of the workshop/seminar	Number of Participants	Date
1	Seminar to Celebrate World Population Day by Department of Economics	45	12th & 13th July 2022
2	Seminar on সংস্কৃতদিবস by Department Of Sanskrit	72	12th August 2022
3	Seminar on সন্দ্বাবনাদিবস by Department of Sanskrit	75	20th August 2022
4	Seminar as an awareness program on Worlds Zoonoses Day 2022, dt. August 23, 2022 (Invited talk by Dr Aritri Dutta, DBT/Wellcome trust)by Dept. of Zoology	36	23 rd August 2022
5	Adhunik Bangla Sahityakaar : Chetanay o bikkhane by Dept. of Bengali	36	30th August,2022
6	One-day Seminar on Exploring the Career Opportunities in Data Science by Dept. of Economics	62	22nd September 2022
7	Title of the Programme WORLD PHILOSOPHY DAY by Dept. of Philosophy	125	18 th November, 2022
8	International-seminar-on-understanding-gender-identity by Dept. of History	45	16 th December 2022
9	Understanding the journey of human right by Dept. of Political Sciences	48	21 st December 2022
10	One day seminar on branch cut analysis function by Dept. of Mathematics	65	23 rd December 2022
11	One-Day Seminar "A day with Physics" by Dept. of Physics, Barasat Government College - Main Speaker Dr Prabir Mukherjee, Govt. College of Textile & Engg. Tech., Serampore, Hooghly, West Bengal	40	6th January 2023
12	Seminar on research methodology to celebrate world cancer day 23 held on 16.02.2023 By Dept. Of Zoology	58	16 th February 2023
13	Seminar on the Topic of The evolution of Indian Science in the last 200 years with special emphasis on Jagadish Chandra Bose, Prafulla Chandra Ray and C.V.Raman at National Science Day by Department of Chemistry	62	24th February, 2023
14	One Day Seminar on National Career Service Portal cum Free Career Enhancement Training by Dept. of Economics	77	25th April 2023
15	A one day seminar on Plant Nomenclature was organised by PG Dept. of Botany	35	6th May, 2023

Sl. No.	Name of the workshop/seminar	Number of Participants	Date
16	Seminar on “Mangrove Biodiversity” on occasion of International Day for Biodiversity	48	22nd May, 2023
17	Academic seminar on research methodology related to field and laboratory environmental research, environmental sustainability on the occasion of World Environment Day on 16 June 2023 by Dept. of Zoology	41	16 th June 2023
18	"Unish Shotok Bishoye Bishesh Boktrita O Bitorko Sabha" by Dept. of Bengali	70	28th June, 2023



**H. STUDENT AWARDS IN SPORTS/ CULTURAL/ OUTREACH EVENTS
(2022 - 2023)**

Total events: 07

Sl. No.	Name of the event	Name of the student participated
1	Silver in Kata in Shokotan 24 Parganas North District Championship, 2022	Ananya Ghosh
2	Bronze in Kumita in Shokotan 24 Parganas North District Championship, 2022	Ananya Ghosh
3	Excellence Reciter in All India Cultural Competition	Ankita Mitra
4	2nd in 1500 Meter Run (Women)	Ayasha Khatun
5	1st in Digital Poster Competition	Neha Sultana
6	2nd in Digital Poster Competition	Barnik Sardar
7	3rd in Digital Poster Competition	Debnita Kundu

I. GENDER SENSITIZATION PROGRAMS HELD

Total Number: 07

Sl. No.	Date	Event
1	23 rd Nov 2022	Gender Sensitization workshop with Department of Political Science
2	8 th December 2022	Women's Rights are Human Rights: Awareness Programme on Gender Based Violence (ICC)
3	16 th December 2022	International-seminar-on-understanding-gender identity by Dept. of History
4	27 th March 2023	Celebration of Women's History Month (ICC)
5	26 th May 2023	Gender Sensitization workshop with Department of Chemistry
6	12 th June 2023	Gender Sensitization workshop with Department of Geography
7	26 th June 2023	Gender Sensitization workshop with Department of Mathematics

BARASAT GOVERNMENT COLLEGE
(NAAC - A GRADE & DST-FIST SPONSORED COLLEGE)
ESTD - 1950

"WOMEN'S RIGHTS are HUMAN RIGHTS"

To commemorate
"16 Days of Activism
Against Gender Based Violence
25 November to 10 December, 2022"

**UNITE AND FIGHT FOR HUMAN RIGHTS
TOGETHER WE CAN WIN**

🕒 12.30pm
📅 08 December, 2022

Organised by
ICC
Barasat Government college
in collaboration with
Sutanutir Sakhya
📍 Seminar hall, Annex Building

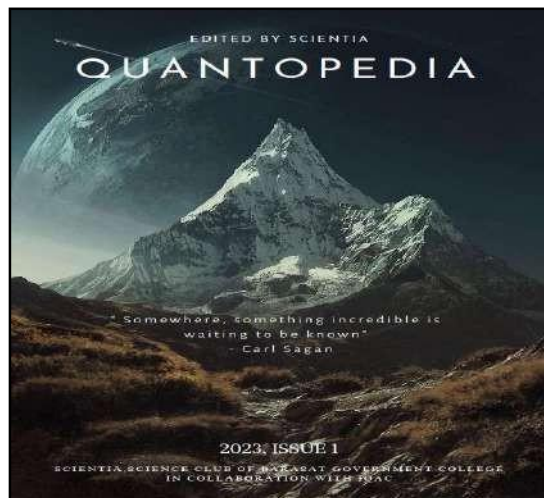


J. SCIENCE CLUB ACTIVITIES

Magazine Published: 1

Videos created: 7

Discipline	Video Name	Youtubelink
BOTANY	M.S.Swaminathan:The father of green revolution of India	https://youtube.com/watch?v=xx-OUHC8CdQ&si=ZKDHVOD8f2f8H9C
CHEMISTRY	Fritz Haber: Genius or Genocider	https://youtube.com/watch?v=CSL-MC6IUUg&feature=share9
ECCONOMICS	Milton Friedman: Economic Genius	https://youtube.com/watch?v=j5ywnzWR39w&feature=share9
GEOGRAPHY	S.P. Chatterjee: Father of Indian Geography	https://youtu.be/1Ucwa7IUu6c
MATHEMATICS	Kurt Gödel:Unraveling the Mind	https://youtu.be/CvY63jUPQCg?si=P3RrCcaU3yjHK5Uc
PHYSICS	Homi J.Bhabha:Indian Nuclear Physicist	https://youtube.com/watch?v=Oc9OrnQZzPM&feature=share9
ZOOLOGY	Gopal Chandra Bhattacharya: 1 st entomologist of India	https://youtu.be/vF_I7iLKDsg



Page No.	Topic
1	APPLICATION OF CRISPR/CAS9 TECHNOLOGY IN AGRICULTURE. BY DEPARTMENT OF BOTANY.
7	NANO-CHEMISTRY, A NEW ERA OF SCIENCE. BY DEPARTMENT OF CHEMISTRY.
26	THE APPLICATION OF RANDOMISED CONTROLLED TRIALS ON DEVELOPMENT ECONOMICS RESEARCH AND POLICY MAKING. BY DEPARTMENT OF ECONOMICS.
36	QUANTITATIVE REVOLUTION AND ITS ADAPTATION IN GEOGRAPHY. BY DEPARTMENT OF GEOGRAPHY.
50	LEGACY OF A PROBLEM WHICH HAD REMAINED UNSOLVED FOR OVER 350 YEARS : FERMAT'S LAST THEOREM. BY DEPARTMENT OF MATHEMATICS.
59	MAGLEV : WORLD'S FASTEST TRAIN. BY DEPARTMENT OF PHYSICS.
63	UNRAVELING THE MYSTERIES OF BLACK HOLES : A JOURNEY INTO THE COSMIC ABYSS. BY DEPARTMENT OF PHYSICS.
67	GROWING INTO MODERN MAN HAVE WE COMPLETELY BLOWN OUR PAST ? BY DEPARTMENT OF ZOOLOGY.

"The important thing is not to stop questioning."
- Albert Einstein

K. NSS ACTIVITIES FOR SOCIAL OUTREACH AND COMMUNITY SERVICES

Total Programs: 24

Sl. No.	Date	Activity
1	1 st to 15 th August 2022	Observed National Youth Day
2	12.08.2022	Campus Cleaning Programme on the occasion of International Youth Day
3	15.08.2022	Observed Independence Day
4	05.09.2022	Programme on felicitation of students and teachers by Hon'ble Chief Minister, Govt. of West Bengal
5	09.09.2022	Observed International Literacy Day
6	24.09.2022	Observed NSS Day
7	05.10.2022	Observed Swachh Kaal: Amrit Kaal
8	20.10.2022	'Lifestyle for the Environment Pledge'
9	27.10.2022	'Ekta Shrinkhala Campaign'
10	31.10.2022	Azadika Amrit Mohotsav: Fit India Freedom Run 3.0
11	10.11.2022	HIV Awareness Programme
12	10.11.2022	Tree Plantation Programme
13	02.12.2022	Clean Environment & Sustainability Swachh Bharat Mission Campaign
14	17 th to 23 rd Dec 2022	7 Day Special Camping Programme on 'Health, Family, Welfare and Nutrition'
15	06.01.2023	Celebration of 'Students Week 2023'
16	12.01.2023	Observed National Youth Day
17	26.01.2023	Observed Republic Day

Sl. No.	Date	Activity
18	16.02.2023	Awareness Programme on 'Protection of Rights, Full Participation & Equal Opportunity of Specially Aabled'
19	10.03.2023	Observed International Women's Day (8 th March)
20	17.03.2023	Campus Cleaning Programme
21	27.03.2023	Blood Donation Camp
22	22.05.2023	Vivek Samhati Utsab-2023
23	05.06.2023	Observed World Environment Day
24	21.06.2023	Observed International Day of Yoga



**L. TEACHERS PARTICIPATION IN FAULTY DEVELOPMENT
PROGRAMS 2022-23
Total number - 08**

Sr. No.	Session	Name of participant	Title of Course	Duration
1	Debashree Dutta	Yoga, Meditation & Sports Delhi University	14.02.2023 - 27 .02.2023	Debashree Dutta
2	Antara Banerjee	Certificate Course in Brahmi Lipi Asiatic Society for Social Science Research	October to December 2022	Antara Banerjee
3	Anuradha Bandopadhyay	Analysis of Statistical Data & Use of R-Code SERB, DST	17- 18 .11. 2022	Anuradha Bandopadhyay
4	Anuradha Bandopadhyay	Online Refresher Course in Botany Ramanujan College, Delhi University	18 .02.2023 - 04 .03. 2023	Anuradha Bandopadhyay
5	Jaydip De	Workshop on Application of Machine Learning in Various Fields, IIGST	15.05.2023 - 16 .05. 2023	Jaydip De
6	Jaydip De	Refresher Course in Environmental Sciences, HRDC, Kumaun University	12.08.2022 - 27.08 2022	Jaydip De
7	Srikanta Guria	4 days Online Lecture Series on “Biosciences”, Satyabhama, Institute of Science and Technology	16.08.2022 - 19 .08.2022	Srikanta Guria
8	Indrani Banerjee	FDP on Introduction to Proteomics NPTEL-AICTE	25 .07.2022, 22 – 25.09.2022	Indrani Banerjee

M. RESEARCH PROJECTS SANCTIONED IN CALENDAR YEAR 2022

Total number: 01

Name of the research project/ endowment	Name of the Principal Investigator/Co- investigator	Amount Sanctioned	Duration of the project	Name of the Funding Agency
Statistical mechanics of one-dimensional transport: Role of conservation laws, coupled gates and obstacles	Sudip Mukherjee Physics	0.915	3 Years	SERB, DST

M. RESEARCH PROJECTS SANCTIONED IN CALENDAR YEAR 2023

Total number: 03

Name of the research project/ endowment	Name of the Principal Investigator/Co- investigator	Amount Sanctioned	Duration of the project	Name of the Funding Agency
Broken symmetry phases in correlated backgrounds: Scaling and universality	Sudip Mukherjee Physics	2.75	3 Years	SERB, DST
Statistical mechanics of one-dimensional transport: Role of conservation laws, coupled gates and obstacles	Sudip Mukherjee Physics	0.9	3 Years	SERB, DST
Long Term ICMR-DHR International Fellowship for Young Indian Bio-medical Scientists 2022-23 to act as International Visiting Fellow (Indian Council of Medical Research, Govt. of India) at Laboratory of Malaria and Vector Research, National Institutes of Allergy and Infectious Diseases, National Institutes of Health, Rockville, USA	Somaditya Dey Zoology	10.75061	1 Year	Indian Council of Medical Research, Govt. of India

N. STUDENTS' ACADEMIC RECORD 2022-23

Course	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
UG-Hons	Physics	20	20	90%
	Chemistry	18	13	
	Zoology	25	17	
	Botany	22	21	
	Mathematics	30	30	
	Geography	42	42	
	Economics	17	16	
	English	61	56	
	Bengali	58	57	
	Philosophy	67	46	
	Political Science	53	53	
	Sanskrit	27	22	
	History	63	62	
	Total	503	455	
UG-General	B.A. General	290	245	82%
	B.Sc. Pure General	59	44	
	B.Sc. Bio General	13	9	
	Total	362	298	
M.A./ M.Sc.	M.Sc. in Physics	15	15	100%
	M.Sc. in Botany	26	26	
	M.Sc. in Zoology	24	24	
	M.A. in Bengali	33	33	
	Total	98	98	

Abhijit De

Coordinator, IQAC
Co-ordinator, IQAC
Barasat Government College
Government of West Bengal

Abhatterji
Principal
Barasat Government College



Abhatterji



Principal
Barasat Govt. College
Govt. of West Bengal