

**ANNUAL REPORT OF
BARASAT GOVERNMENT
COLLEGE**

PUBLISHED BY IQAC

2019-20

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A. MAJOR ACHIEVEMENTS

- The ongoing Covid-19 pandemic resulted in a sudden closure of the college premises. Teachers successfully shifted to online mode of teaching using google classroom, YouTube videos, power point presentations etc. so that the teaching learning process of the institute is not compromised.
- An online feedback system from various stakeholders students, teachers, alumni, guardians etc. using google forms was initiated by IQAC.
- An employment generation certificate course on handicraft designing was organised successfully in collaboration with NSS to empower the girl students
- To ensure that needy students do not miss out on the online classes during the pandemic several members of the staff and the college alumni provided devices and data to students who were financially ill-equipped to procure them.
- Teaching material like notes, books etc. was uploaded on the college website so that students with poor connectivity could avail the resources

B. RESEARCH PUBLICATIONS of CALENDAR YEAR 2019

Total Number: 45

Sl. No.	Title of paper	Name of the author/s	Department	Name of journal
1	Ami Dakayter Sardar	Dipankar Bhattacharyya	BENGALI	Korok Sahitya Patrika
2	Nirendranath Chakraborty Kobita : Andhakar Theke Alor Khonje	Md. Abdur Rafik Sardar	BENGALI	Tabu Ekalabya
3	Nil Mayurer Joubon : Bhinno Shwar, accepted 2019	Md. Abdur Rafik Sardar	BENGALI	Samakaler Jiyonkathi Prakashan
4	Biocontrol and growth promoting potential of eight PGPFs on jute and sunhemp.	Bandopadhyay, A., Bhattacharya, S.K. and Das, N.	BOTANY	Journal of Soils and Crops, Vol 29(2):2432-50
5	Biosynthesis of myo-Inositol in chloroplast of salinity stressed marine macro alga Ulvalactuca	Basu S, Basak A, Mahanty DS ,Bhattacharjee S, Adhikari, J	BOTANY	Botanica, Vol-25(1):32-40
6	Comparative characteristic of cytosolic and chloroplastidial D/L myo- Inositol-1- phosphate phosphatase partially purified from Enteromorpha intestinalis (L.) Nees (a marine macro algae) grown under high salinity niche	Basu S., Basak, A., Mahanty, D.S., Bhattacharjee, S. and Adhikari, J	BOTANY	Phycology International
7	Elicitation: A biotechnological tool for enhanced production of secondary metabolites in hairy root cultures	Halder M, Sarkar S, Jha S.	BOTANY	Engineering in Life Sciences
8	Bidens pilosa L.: Exclusive report of vivipary in a non-mangrove taxa from the eastern Himalayas	Karmakar NC, Hazra A, Das S	BOTANY	Plant Species Biology
9	Comparative study of three Pleurotus spp. cultivated on two different substrates with special reference to their biochemical and antibacterial activities	Paul C., Maitra, M. and Das, N	BOTANY	Mushroom Research, Vol- 28(1):39-46

10	Biochemical and Metagenomic Insight Into The Impact Of Climate Change On An Epiphytic Fern Of The Indian Sunderbans	Rahaman S., Bera A.R., Vishal V., Gupta S. , Chakraborty W. & Ganguli S.,	BOTANY	Tropical Plant Research, Vol-6(3):433-437
11	Molecular Modeling, Simulation and Studies on Interactions of Three Major Proteins Encoded by the Ebola Genome	Sayak Ganguli ^{1^} , Suchismita Guharoy ² , Pooja Das ² , Saheli Sarkar ² , Late Dipanwita Mukherjee ² , Damayanti Chakravarty ³ , Mainak Chakraborty ³ , Pankaj K Singh ^{3#} , Protip Basu ⁴ , Abhisek Ranjan Bera ³ , Vineet Vishal ³ , and Sohini Gupta ⁵	BOTANY	International Journal of Pharmacy and Biological Sciences-IJPBSTM (2019) 9 (2):1486-1494
12	Internal Migration and Public Policy (with Michele G Giuranno), B.E. Journal of Economic Analysis & Policy, De Gruyter, vol. 19 (4), 1-16, October, 2019.	Rongili Biswas , Michele G Giuranno	ECONOMICS	B.E. Journal of Economic Analysis & Policy, De Gruyter
13	Health Status, Standard of Living and Labour Force Participation in India: A Panel Data Analysis	Kaushiki Banerjee	ECONOMICS	International Journal of Research and Analytical Reviews
14	Consumption of Durable Goods in Indiab : A Cross- Section Analysis	Rajnarayan Gupta	ECONOMICS	The Indian Journal of Economics
15	A Study on Spatial Variation of Health Infrastructure of District North 24 Parganas of West Bengal	Dr.Ruksanara Begum	GEOGRAPHY	International Journal of Inovative Studies in Sociology and Humanities
16	Statistical analysis of Regional Distribution and Productivity of Food Grains of West Bengal Page –92-100, Vol – 4, Issue-5 - Date of Publication: 10.05.2019	Dr. Ruksanara Begum	GEOGRAPHY	International Journal of Inovative Studies in Sociology and Humanities
17	Spatial Pattern of Urban and Peri-Urban Aquaculture in Kolkata Metropolitan Area, India	Shrabana Mazumder , Debajit Datta	GEOGRAPHY	International Journal of Innovative Studies in Sociology and Humanities
18	Urban and peri-urban agriculture in Kolkata Metropolitan Area: an assessment of status and sustainability	Shrabana Mazumder , Debajit Datta, Mrinmoyee Naskar, Raktima Ghosh	GEOGRAPHY	Contemporary Social Sciences
19	On Some Discrete Distribution Results Based on (alpha,beta) -Past Entropy	Prasanta Paul	MATHEMATICS	Bulletine of the Calcutta Mathematical Society
20	I-generalized metric spaces and some Fixed point theorems	Sunil Suman, Jayanta Biswas	MATHEMATICS	Journal of the Gujarat Research Society

21	S-shaped heat capacity in an odd–odd deformed nucleus	B Dey, N Hung, D Pandit, Srijit Bhattacharya et al	PHYSICS	Phys Letter B
22	Role of fluctuations in a thermal phase transition in a nucleus probed via the giant dipole resonance	D Pandit, Srijit Bhattacharya et al.	PHYSICS	Phys Rev C
23	Constrained Hamiltonian analysis of a nonrelativistic Schrödinger field coupled with Chern-Simons gravity	P.Mukherjee and A.Sattar	PHYSICS	Physical Review D
24	Subtleties of nonrelativistic reduction and applications	R.Banerjee and P.Mukherjee	PHYSICS	Nuclear Physics B
25	New Action for Nonrelativistic Particle in Curved Background	Rabin Banerjee, and Pradip Mukherjee	PHYSICS	Phys Letter B
26	First-Principles Investigation of the Structural, Electronic and Magnetic Properties of α -, β - and γ -Mg(AlH ₄) ₂ Complex Hydride	Sarajit Biswas	PHYSICS	Journal of Superconductivity and Novel Magnetism
27	Assessment of Hymenoptera and Non-Hymenoptera Insect Bite and Sting Allergy Among Patients of Tropical Region of West Bengal, India	Arghya Laha, Tania Sarkar, Debarati Dey, Priti Mondal, Srijit Bhattacharya , Saibal Moitra, Goutam Kumar Saha, and Sanjoy Podder	PHYSICS and ZOOLOGY	Journal of Medical Entomology (Impact factor:1.968)
28	Dynamics of decoherence of an entangled pair of qubits locally connected to a one-dimensional disordered spin chain	Sudip Mukherjee , Tanay Nag	PHYSICS	Journal of Statistical Mechanics: Theory and Experiment
29	On the Question of Ergodicity in Quantum Spin Glass Phase and Its Role in Quantum Annealing	Sudip Mukherjee , Bikas K Chakrabarti	PHYSICS	Journal of the Physical Society of Japan
30	Association of the STAT6 rs3024974 (C/T) Polymorphism with IgE-Mediated Food Sensitization among West Bengal Population in India	Arghya Laha, Amlan Ghosh, Saibal Moitra, Ishita Saha, Goutam Kumar Saha, Srijit Bhattacharya , Sanjoy Podder	ZOOLOGY and PHYSICS	Int Arch Allergy Immunol
31	Phytochemical analysis of mite-infested tea leaves of Darjeeling Hills, India	Piu Banerjee, Md Moinul Islam, Arghya Laha, Himani Biswas, Nimai Chandra Saha, Goutam Kumar Saha, Debjani Sarkar, Srijit Bhattacharya , Sanjoy Podder	ZOOLOGY and PHYSICS	Phytochemical Analysis / Volume 31, Issue 3 / p. 277-286
32	A review of house dust mite allergy in India.	Debarati Dey, Goutam Kumar Saha & Sanjoy Podder	ZOOLOGY	Experimental and Applied Acarology (Springer), 78:1-14. I.F. 1.532.

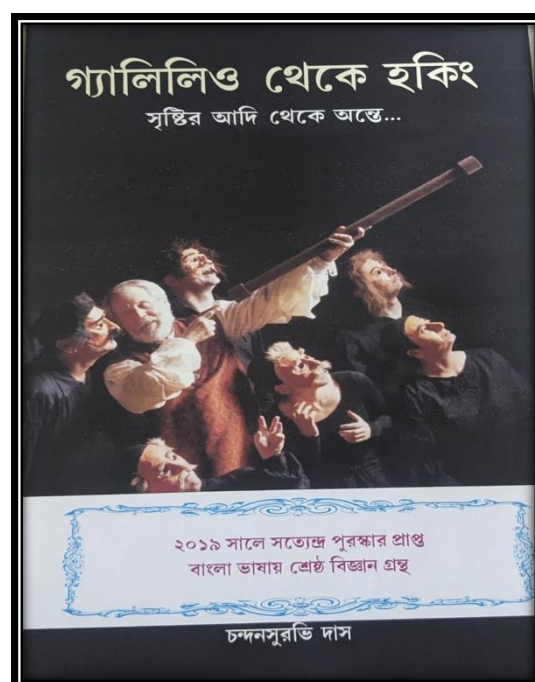
33	A glimpse of predatory mites on tea Plantations of India: Biodiversity, Predatory potential and Taxonomic Key.	Gupta, S.K. & Roy, S.	ZOOLOGY	J. Ent. Res. 43(3): 351-358.
34	Insects and mites occurring a Mushroom In South 24 Parganas district of West Bengal.	Mondal, A & Gupta, S.K.	ZOOLOGY	Int.J. Sci. R 8(2): 67-69.
35	Mites of some medicinal plants occurring in Puruliya and Bankura districts of South Bengal with two new reports from India along with keys to different taxonomic Categories.	Mondal, A. & Gupta, S.K. 2019.	ZOOLOGY	Bionotes 21 (3): 78-89.
36	Bioefficacy of some green pesticides against <i>Brevipalpus karachiensis</i> Chaudhri et al. (Acari: Tenuipalpidae) infesting <i>Justicia adhatoda</i> L. Nees (Family Acanthaceae) under laboratory condition.	Mondal, A. & Gupta, S.K. 2019.	ZOOLOGY	Int. J. Zool. studies
37	Laboratory evaluation of efficacy of some green pesticides against <i>Oligonychus oryzae</i> (Hirst) (Acari:Tetranychidae) infesting paddy.	Mukhopadhyay, S.& Gupta,S.K. 2019.	ZOOLOGY	Bionotes 21(2), 30-32
38	Some new records of mites occurring Mushroom in South Bengal.	Parveen, R. & Gupta. S.K.	ZOOLOGY	Int. J. Zool. Studies. 4(5): 8-12
39	Investigation of house dust mite induced allergy using logistic regression in West Bengal, India	Priti Mondal, Debarati Dey, Nimai Chandra Saha, Saibal Moitra, Goutam Kumar Saha, Srijit Bhattacharyya and Sanjoy Podder* (2019).	ZOOLOGY and PHYSICS	World Allergy Organization Journal. 12: 100088 (Elsevier). I.F: 3.506.
40	Study on Different Types of Haemocytes and Their Behaviour in Insects (Orthoptera) Collected From Navegaon and Tadoba National Park and Its Adjoining Areas	Srikanta Guria & Susraba Chatterjee	ZOOLOGY	J. Pharm. Biol. Sci. [CODEN IJPBK3 Chemical Abstract Services (USA) Impact factor=0.88], 9 (3): 789-794
41	Host plant based ecobiological attributes of a mimetic set of Nymphalids from Taki, North 24 Parganas, West Bengal : A comparative documentation.	Srinjana Ghosh & Sumana Saha	ZOOLOGY	World Scientific News [Index Copernicus International IC value for 2017 : 87.64]
42	<i>Anomala Samouelle</i> , 1819 (Rutelinae: Scarabaeidae) of Buxaiger Reserve, Dooars, West Bengal, India. Part – II.	Subhabkar Sarkar, Sumana Saha & DinendraRaychaudhuri	ZOOLOGY	World Scientific News [Index Copernicus International IC value for 2017 : 87.64]

43	Anecdote of spiders and their model ants of Bibhutibhushan Wildlife Sanctuary, N-24 Parganas, West Bengal.	Sumana Saha , Tamoghna Ray & Dinendra Raychaudhuri	ZOOLOGY	World Scientific News [Index Copernicus International IC value for 2017 : 87.64]
44	Macrophages in Diabetes Mellitus: A Review on Understanding of Macrophage Function. WSN 134(2) (2019) 319-325 EISSN 2392-2192 peer reviewed indexed IC Value for 2017: 83.79	Susraba Chatterjee and Srikanta Guria	ZOOLOGY	WSN 134(2) (2019) 319-325 peer reviewed indexed IC Value for 2017: 83.79
45	Ant Faunal Diversity of Bibhutibhushan Wildlife Sanctuary, North 24 Parganas, West Bengal, India	Tamoghna Roy, Sumana Saha & Dinendra Raychaudhuri	ZOOLOGY	World Scientific News [Index Copernicus International IC value for 2017 : 87.64]

**C. BOOKS/CHAPTERS PUBLISHED/PAPERS IN CONFERENCES
Calendar Year 2019**

Total number: 7

Sl. No.	Name of the teacher	Title of the book/chapters published/Name of Conference	Title of the paper
1	Chandan Surabhi Das	Climatology (Bengali)	-
2	Chandan Surabhi Das	The Sundarbans: A Disaster-prone Eco-Region Increasing Livelihood Security	Current Status of Mangrove Forests in the Trans-boundary Sundarbans
3	Chandan Surabhi Das	Gallilio Theke Hawking: Evolution of Universe (Bengali)	-
4	Balaram Das	Perspectives on Culture and Cognition : An Interdisciplinary Approach	Culture, Thought & Religion in the Life & Works of Sri Aurobindo (pp. 112-118)
5	Antara Banerjee	পর্যবেক্ষণ	বৈশেষিক দর্শনে ঈশ্বর
6	Poulomi Saha	Women in Ancient India: Myriad Voices	उत्तररामचरिते नारीनामुत्तरणम्
7	Chandan Surabhi Das	Proceedings of the International Conference on Livelihood Promotion, Bio-diversity Conservation and Social Security in Indian Sundarban	Mitigating Human-Carnivore Conflicts in Mangrove Ecosystem of Indian Sundarban: A Conflict Resolution Framework and Outlook



D. AWARDS RECEIVED BY FACULTY (2019 – 2020)

Total Number: 03

Sl. No.	Name of Awardee	Name of the Award/ recognition	Name of the Awarding body
1	Dr. Srikanta Guria Assistant Professor in Zoology, Barasat Govt College.	1st position in Competitive Poster Presentation	National level seminar on Global Warming & Biodiversity Conservation sponsored by West Bengal Biodiversity Board, Organized by Dept. of Zoology, Raja Peary Mohan College with SEBA 2nd August, 2019
2	Dr. Somaditya Dey, Assistant Professor in Zoology, Barasat Govt College	Travel grants to early-career researchers from American Association of Immunologists for attendance and paper presentation (poster)	17th International Congress of Immunology, Beijing, China, organized by IUIS and CSI, 19-23rd October, 2019.
3	Chandan Surabhi Das, Associate Professor in Geography, Barasat Govt College	Satyendra Puraskar, 2019	Department of Science and Technology, Government of West Bengal 28 February, 2020



E. COLLABORATIVE WORK BY THE INSTITUTION 2019-20

Total number: 7

SL.NO.	ORGANIZATION	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 (Formerly Ramakrishna Mission Vivekananda University), Narendrapur, Kolkata	Collaborative Research & Publications
4	Gour Banga University	Collaborative Research & Ph.D. Supervisor
5	IIT Madras	Collaborative Research & publication
6	IEST, Shibpur	Collaborative Research & publication
7	Dept of Microbiology St. Xavier College	Collaborative Research & Ph.D. Supervisor

**F. VALUE ADDED/ ADD ON COURSES OFFERED BY
BARASAT GOVERNMENT COLLEGE**

(2019-20)

Total Number: 02

Sr. No.	Name of Value added / Add on course offered by the Institute	Course Code	Academic Session of offered course	Period	Number of Students
1	Quick Guidance for Competitive Examinations and ICT Applications	BGCVAC001/2019-20	2019-20	18.10.2019 to 25.10.2019	177
2	Waste Management Practices and Sustainable Living	BGCVAC002/2019-20	2019-20	09.02.2020 to 08.03.2020	103

G. SEMINARS CONDUCTED BY THE COLLEGE IN 2019 – 2020

Number: 09

Sl. No.	Name of Workshop/Seminar	No. of Participants	Date
1	Title: CHEMIKAZE Speaker: Dr.Priyotosh Dutta, Associate Professor, Anandomohon College, Kolkata Organizer: Department of Chemistry.	42	12.09.2019
2	Seminar Title: Chemistry at the crossroads Speakers: (I) Dr. Rana Sen, Associate Professor, Scottish Church College, Kolkata and (II) Prof.DipakMondal (Retired), WBSES. Organizer: Department of Chemistry.	42	24.09.2019
3	TALK ON MEDIA ETHICS by dept. of PHILOSOPHY	55	24.09.2019
4	Special Lecture: Slave Narratives, Anti-Slavery Literature and the Literary Context of Toni Morrison's Beloved" Speaker: Dr.Paromita Dutta, Assistant Professor of English, Gobardanga Hindu College.	21	15.11.2019
5	Special Lecture: "Nonsense Literature: From Edward Lear to Sukumar Ray and Beyond" Speaker: Dr Paramita Bhattacharya, Department of Bengali, Barasat Government College.	22	28.11.2019
6	‘ETHICAL ISSUES IN STEM CELL SCIENCE’ Speaker: Prof.Sanjukta Bhattacharya. Professor, Dept. of International Relations, Jadavpur University.	55	10.02.2020
7	Seminar on ‘FUTURE OF STEM CELL SCIENCE IN INDIA’ Speaker: Prof.Niranjan Bhattacharya, Professor, Dept. of Stem Cell Biology & Translational Science, CSTM.	55	10.02.2020
8	Seminar on World Environment Day, Start Today, Save tomorrow: An initiative of P.G. Dept. of Zoology	94	05.06.2020
9	Online Workshop on Creative Writing and Media Writing for Teachers, Conducted by IndraniChakrabarti, former Content Head of Radio Mirchi and Dr.Sumita Bannerjea, Writer and Educationist.	11	27.06.2020 & 28.06.2020

H. STUDENT AWARDS IN SPORTS/ CULTURAL/ OUTREACH EVENTS (2019 – 2020)

Total events: 02

Sl. No.	Name of the event	Name of the student participated
1	1st Position in 10th Men's National Body Building Championship 2020	Subha Mondal
2	2nd in Sangram Classic East India Bodybuilding and Physique Championship (Specially Abeled category)	Subha Mondal



I. EXTENSION AND SOCIAL OUTREACH ACTIVITIES (2019 - 2020)

Total Programs: 11

Date	Activity
26.07.2019	Awareness Rally against Dengue and Chikungunya, participants=39 NSS volunteers
27.07.2019	Title: Leaflets distribution and public interaction regarding the vector-borne, participants=39 NSS volunteers
15.08.2019	Observed Independence Day
28.08.2019	‘Green Campus’ and ‘Tree plantation programme’
11.09.2019	Campus cleaning programme, Participants=39 NSS volunteers
27.09.2019	Youth Parliament Competition (organized by Political Science), Participants 16
21.10.2019 To 01.11.2019	Seven Days Workshop on Arts & Crafts, participants=39 NSS volunteers
11.11.2019 to 18.11.2019	A group of 37 B.Sc Geography Honours students of Barasat Government College participated field excursion at Gopalpur, Daringbari, Orissa for 7 days. The students’ visit to the coastal village /coastal areas and hilly areas provided valuable learning experience beyond the classroom. The experiences included hands-on learning, exposure to real world geographical phenomena and interaction with local communities. These experiences will help students in their future studies or research.
15.11.2019 to 19.11.2019	Visited to Dooars and adjoining areas from 15.11.2019 to 19.11.2019 along with the CBCS Semester I (UG) students [Total No.19]
12.01.2020	A rally on the occasion of celebrations of 126 years of the speech of Swami Vivekananda at Chicago was organised by NSS Unit of Barasat Government College on 12.01.2020.
26.01.2020	Observed Republic Day

J. GENDER SENSITIZATION AND AWARENESS PROGRAMMES

(2019-20)

Total Number - 01

Sl.No.	Date	Event	Participants
1	21.9.2019	Awareness Programme on Sexual Harassment by ICC	78



K. ACADEMIC RECORD 2019-20

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	31	31	99.15
	Chemistry	25	25	
	Zoology	14	14	
	Botany	17	17	
	Mathematics	35	35	
	Geography	36	36	
	Economics	10	10	
	English	51	51	
	Bengali	58	58	
	Philosophy	42	42	
	PoliticalScience	59	57	
	Sanskrit	33	32	
	History	59	58	
Total	470	466		
UG-General	B.A. General	224	211	95.41
	B.Sc. General	81	80	
	Total	305	291	
M.A./ M.Sc.	M.Sc. inPhysics	12	12	100
	M.Sc. inBotany	20	20	
	M.Sc. inZoology	24	24	
	M.A.inBengali	21	21	
	Total	77	77	

**L. TEACHERS PARTICIPATING IN FAULTY DEVELOPMENT
PROGRAMS 2019-20
Total number - 04**

Sr. No.	Session	Name of participant	Title of Course	Duration
1	2019-20	Somaditya De	Refresher course on recent development in Biological Science Burdwan University	16.08.2019 - 29.08.2019
2	2019-20	Mihir Halder	Interdisciplinary Refreshers Course in Life sciences Calcutta University	04.01.2020-17.01.2020
3	2019-20	Sarajit Biswas	Refresher course in Physics Calcutta University	18.08.2019 - 02.09.2019
4	2019-20	Shrabana Majumder	Refresher course on Environment and Sustainability Burdwan University	03.01.2020 - 16.01.2020

M. RESEARCH PROJECTS SANCTIONED IN CALENDAR YEAR 2019

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
Inventorization of Sacred Groves in North 24 Parganas district in West Bengal	Dibyendu Shekhar Mahanty (BOTANY)	0.6	3 Years	West Bengal Biodiversity Board



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



Principal
Barasat Govt. College
Govt. of West Bengal