

**ANNUAL REPORT OF
BARASAT GOVERNMENT
COLLEGE**

PUBLISHED BY IQAC

2018-19

INDEX

	TITLE	Page Number
A	MAJOR ACHIEVEMENTS	3
B	RESEARCH PUBLICATIONS	4-6
C	BOOKS PUBLISHED /PAPERS IN CONFERENCES	7
D	AWARDS RECEIVED BY FACULTY	8
E	COLLABORATIVE WORK BY THE INSTITUTION	9
F	SEMINARS CONDUCTED BY THE COLLEGE	10
G	STUDENT AWARDS IN SPORTS/ CULTURAL EVENTS	11
H	EXTENSION AND SOCIAL OUTREACH ACTIVITIES	12
I	GENDER AWARENESS PROGRAMS	13
J	STUDENTS ACADEMIC RECORD	14
K	TEACHERS PARTICIPATING IN FDP	15
L	RESEARCH PROJECTS SANCTIONED	16

A. MAJOR ACHIEVEMENTS

- The IQAC has held meetings with various stakeholders, faculty, non teaching staff, and students etc. to ensure a smooth running of the CBCS academic system which started from July 2018. Regular meetings with the routine committee of college were held with IQAC members to incorporate the various skill based courses, so that students may move across departments for their choice. The class duration has also been increased to 1 hour to incorporate the CBCS credit structure.
- A ONLINE comprehensive student management system handling all aspects of student data has been introduced as per the suggestion of IQAC. It is a cloud based ERP system capable of handling diverse functions like student id creation, fees handling, internal marks uploading, admission work etc.
- A 7 day NSS awareness camp has been successfully arranged by the college to address various issues like Climate awareness, Awareness for prevention of vector borne disease, Job opportunities, Drug addiction, Empowerment of students for self-defense, Banking literacy, AIDS prevention and sexual education, Recycling waste for ornamental purposes etc.

B. RESEARCH PUBLICATIONS of CALENDAR YEAR 2018

Total Number: 33

Sl. No.	Title of paper	Name of the author/s	Department	Name of journal
1	Nripendro-Suniti: Birol Rajdampati Katha	Dipankar Bhattacharyya	BENGALI	Korok Sahitya Patrika
2	Isolation of some soil bacteria showing potentiality for disease control, growth enhancement and pesticide degradation in Vignaunguiculata L.	Bandopadhyay A. , Roy, T and Das, N	BOTANY	Plant archives, Vol-18:79-88
3	Isolation, partial purification and biochemical characterization of chloroplastic L-myo-inositol-1-phosphate synthase from a macro alga Enteromorpha intestinalis under high salinity.	Basu, S., Basak, A., Bose, R., Chakrabarty, R. and Adhikari, J	BOTANY	Environmental and Experimental Biology. Vol-16:21-30
4	Chemical induced seed germination and enhancement of seed potential of seven wild plant taxa of Ericaceae in India	C. K. Pati, A. Bhattacharjee, P. Roy, D.S. Mahanty and S. Panda	BOTANY	World Scientific News, Vol-114:249-255
5	Biotechnological approaches for production of anti-cancerous compounds resveratrol, podophyllotoxin and zerumbone.	Nandagopal K, Halder M , Dash B, Nayak S, Jha S.	BOTANY	Current medicinal chemistry, Vol-25:4693-4717
6	Bio-effective disease control and plant growth promotion in lentil by two pesticide degrading strains of Bacillus sp.	Roy, T., Bandopadhyay, A. , Sonawane, P., Majumdar, S., Mahapatra, N., Alam, S., and Das, N.	BOTANY	Biological Control, Vol-127:55-63
7	AN ANALYSIS ON THE TREND IN URBAN DEVELOPMENT PLANNING IN WEST BENGAL, INDIA	Chandrani Bhattacharjee and Prof. Mihir Kumar Pal	ECONOMICS	International Journal of Research in Management & Social Science
8	Why Street Vendors appeared Unplanned in a Planned City? A Case Study with Special Reference to Bidhannagar Planned Township in Kolkata, West Bengal	Chandrani Bhattacharjee, Narasingha Das, Prof. Mihir Kumar Pal	ECONOMICS	IJRDO - Journal of Social Science and Humanities Research
9	Pattern and Characterisation of Human Casualties in Sundarban by Tiger Attacks, India, 2018, Volume 1 doi:10.24294/sf.v1i2.873	Chandan Surabhi Das	GEOGRAPHY	Sustainable Forestry, EnPress Publisher, ISSN: 2578-2002 (Online)

10	Human–crocodile conflict in the Indian Sundarban: an analysis of spatio-temporal incidences in relation to people's livelihood,	Chandan Surabhi Das & Rabin N Jana	GEOGRAPHY	Oryx, Cambridge University Press, Volume 52 (4) , pp. 661-668, October 2018 , 0030-6053 (Print), 1365-3008 (Online) IF. 2.33 (2018)
11	Samajbikasher Parjaysamuho:Marxer Bhabna	Rajkumar Chakrabarti	HISTORY	Anustup
12	On Sheaf Representation of Ternary Semiring	Shobhan Mandal and T. K. Dutta	MATHEMATICS	Southeast Asian Bulletin of Mathematics
13	Galilean gauge theory from Poincare gauge theory	R.Banerjee and P.Mukherjee	PHYSICS	Physical Review D
14	Milne boost from galilean gauge theory	R.Banerjee and P.Mukherjee	PHYSICS	Physics Letters B
15	Late-time acceleration driven by shift-symmetric Galileon in the presence of torsion	R.Banerjee, S.Chakraborty and P.Mukherjee	PHYSICS	Physical Review D
16	Slow fission of highly excited plutonium nuclei	Srijit Bhattacharya , A Sikdar et al.	PHYSICS	Physical Review C (Impact factor:3.132)
17	Sensitization to Common Aeroallergens in the Atopic Population of West Bengal, India: An Investigation by Skin Prick Test	Srijit Bhattacharya , DebaratiDey, S Podder et al.	PHYSICS and ZOOLOGY	International Archives of Allergy and Immunology. (Impact factor:2.932)
18	Study of giant dipole resonance in hot rotating light mass nucleus ^{31}P	Srijit Bhattacharya , Debasish Mondalet al.	PHYSICS	Physics Letters B (Impact factor:4.162)
19	Experimental signature of collective enhancement in nuclear level density	Srijit Bhattacharya et al	PHYSICS	PHYSICAL REVIEW C 97, 041301(R) (2018)
20	Investigation of the Growth Kinetics and Multipolar Plasmonic Properties of Silver Nanoparticle Cluster by Experiment and Numerical Simulations	Md. Moinul Islam · S Mandal · Srijit Bhattacharya	PHYSICS	Plasmonics
21	Record-breaking statistics near second-order phase transitions	Mily Kundu, Sudip Mukherjee ,and Soumyajyoti Biswas	PHYSICS	PHYSICAL REVIEW E 98, 022103 (2018)
22	Possible Ergodic-nonergodic regions in the quantum Sherrington-Kirkpatrick spin glass model and quantum annealing	Sudip Mukherjee , Atanu Rajak and Bikas K Chakrabarti	PHYSICS	Physical Review E (Americal Physical Society, IF: 2.7)

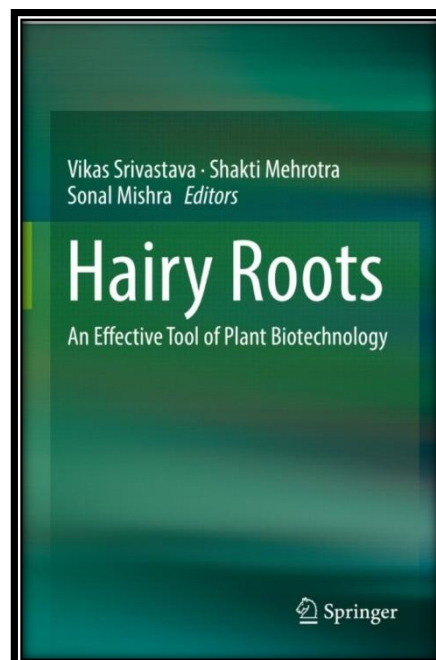
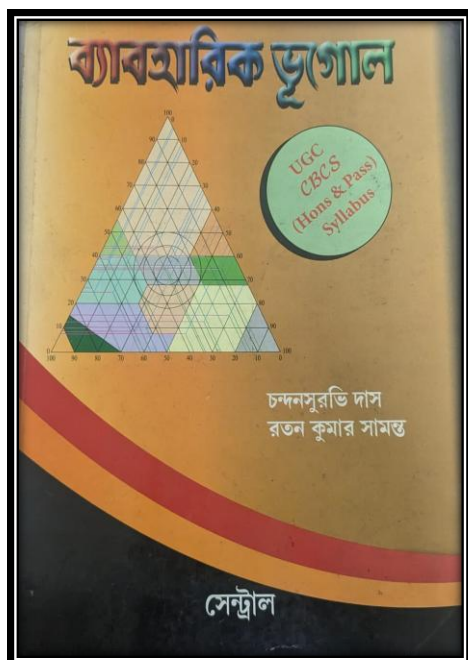
23	Many-body localization-delocalization transition in the quantum Sherrington-Kirkpatrick model	Sudip Mukherjee , Sabyasachi Nag and Arti Garg	PHYSICS	Physical Review B (American Physical Society, IF: 4.9)
24	Surasur Prasango: Veder Nirikhe	Aditi Bhattacharya	SANSKRIT	Victorian Journal of Arts
25	বেদের দেবী সরস্বতীঃনানা রূপে	Antara Banerjee	SANSKRIT	আজকের যোধনঃ সাহিত্যে নারী
26	Histological Changes of Endocrine Section of Pancreas and Liver in Streptozotocin-Induced Experimental Diabetes Mellitus'	Srikanta Guria , Chatterjee A and Das Madhusudan	ZOOLOGY	International Journal of Current Advanced Research, 07(4), 11849-11852.
27	Evaluation of sensitivity towards storage mites and house dust mites among allergic rhinitis patients from the city of Kolkata, India.	Priti Mondal, Debarati Dey, Arghya Laha, Tania Sarkar, Saiba lMoitra, Nimai Chandra Saha, Srijit Bhattacharyya , Goutam kumar Saha & Sanjoy Podder	ZOOLOGY and PHYSICS	Journal of Medical Entomology[I.F.: 1.968 (Oxford Publications)]
28	Site and spectral hue determine landing of alate aphids for invasion to winter crops/ flowering plants.	Sumana Saha , Sayanti Dasgupta, & Dinendra Roychaudhuri	ZOOLOGY	World Scientific News [Index Copernicus International IC value for 2017 : 87.64]]
29	Arsenic Induced Hepatotoxicity and Damage of Pancreatic Islets In Albino Rat: A Possible Role of Diabetes Mellitus	Srikanta Guria	ZOOLOGY	International Journal of Current Advanced Research, 07(1), 9159-9163.
30	Alteration of Cytomorphology of Peritoneal Macrophages of Albino Rat Exposed to Mercuric Compound	Srikanta Guria	ZOOLOGY	World Scientific News. 92(2): 392-399
31	Lead (Pb) Induces Paraptosis Like Cell Death in Hemocytes of Lamellidens Sp: A Preliminary Study	Srikanta Guria	ZOOLOGY	World Scientific News. 94(2) : 163-172
32	Myrmecophilous association between ants and aphids – an overview.	Tanusri Das, Sumana Saha & DinendraRaychaudhuri	ZOOLOGY	World News of Natural Sciences [MNIsw : 5 points]
33	Selective in vitro inhibition of Leishmania donovani by a semi-purified fraction of wild mushroom Grifola frondosa	Somaditya Dey et al	ZOOLOGY	Experimental Parasitology 192, 73-84

C. BOOKS/CHAPTERS PUBLISHED/PAPERS IN CONFERENCES

Calendar Year 2018

Total number: 8

Sl. No.	Name of the teacher	Title of the book/chapters published/Conference name	Title of the paper
1	M. Halder, D. Roychowdhury & S. Jha	Hairy Roots (pp. 21-44) an effective tool of plant biotechnology	A critical review on biotechnological interventions for production and yield enhancement of secondary metabolites in hairy root cultures
2	S. Mitra., A. Halder., S. Gupta. , S. Ganguli., J. Chakrabarty	Translational Epigenetics, Cancer and Noncoding RNAs, Academic Press, Volume 1	A Comparative Evaluation of Emerging Databases and Tools for Cancer Noncoding RNAs
3	Chandan Surabhi Das	Physical Geography (Bengali)	--
4	Chandan Surabhi Das	Practical Geography (Bengali)	--
5	Sourema Saha	Bhugathonik Prokria o Bhumirupbidya	--
6	Balaram Das	Itihas Eshana 1: Bharater Artha-Samajik Itihas	Ouponibesik Bharatborser Aartha-Samajik Obosthar Punorgothone Romesh Chandra Dutter Otit Punosmoron (pp. 84-97)
7	Antara Banerjee	Prajnaprabha: Vol III 3rd International Sanskrit Conference	How the words Came
8	Balaram Das	Bharat Bhaginee Nivedita	God father Rameshchandra Dutta.....Onusandhan



**D. AWARDS RECEIVED by FACULTY
(2018 – 2019)
Total Number: 02**

Sl. No.	Name of Awardee	Name of the Award/ recognition	Name of the Awarding body
1	Somaditya Dey, Assistant Professor in Zoology, Barasat Govt College	Poster Presentation	5th European Congress of Immunology, September 2-5, 2018
2	Dr. Sumana Saha, Associate Professor and Head, Department of Zoology, Barasat Govt. College.	Outstanding paper award in Zoology	26th West Bengal State Science & Technology Congress, 28th February & 1st March, 2019



E. COLLABORATIVE WORK BY THE INSTITUTION 2018-19

Total number: 6

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

F. SEMINARS CONDUCTED BY THE COLLEGE IN 2018 – 2019

Total Number: 06

Sl. No.	Name of Workshop/Seminar	No. of Participants	Date
1	Topic: 'CONQUIZ: A dialogical and joyful learning' Speaker: Dr.Priyotosh Dutta, Associate Professor, Dept. of Chemistry, Ananda Mohan College	46	14.09.2018
2	STUDENTS' SEMINAR ON "WESTERN PHILOSOPHERS" by Dept. of PHILOSOPHY	45	03.10.2018
3	A Special Lecture on Harold Pinter by Dr.Paromita Dutta, Assistant Professor of English, Gobordanga Hindu College Organized by Dept. of English	19	05.10.2018
4	Seminar on 'YOU AND YOUR MEDICINES' Speaker- Dr.Santanu Kumar Tripathi, Professor of Pharmacology, Calcutta school of Tropical Medicine	45	22.11.2018
5	Seminar on Metal Pollution in Aquatic Environment: Are we losing our favoured dish from the platter? Speaker: Dr.SumanBhasan Chakraborty, Assistant Professor, Dept. of Zoology, University of Calcutta ORGANIZED BY DEPT. OF ZOOLOGY	53	23.02.2019
6	SEMINAR on Fundamentals of Immunology SOCS3 dictates the transition of divergent time-phased events in granulocyte TNF- α signalling Speaker: Dr.BholaNath Paul, Ex-Professor & Senior Principal Scientist, Head, Immunobiology Division, CSIR-Indian Institute of Toxicology Research, Lucknow, ORGANIZED BY DEPT. OF ZOOLOGY	53	23.02.2019

**G. STUDENT AWARDS IN SPORTS/ CULTURAL/ OUTREACH EVENTS
(2018 – 2019)**

Total events: 01

Sl. No.	Name of the event	Name of the student participated
1	1st Position in PG Quiz Competition organized by The Zoological Society of India and West Bengal Biodiversity Board on 1st May, 2019.	Pradipta Kr. Ghosh, Kaustav Bhattacharjee & Subhradip Pandit



H. EXTENSION AND SOCIAL OUTREACH ACTIVITIES (2018 - 2019)

Total Programs: 6

Date	Activity
15.08.2018	Observed Independence Day, participants=39 NSS volunteers
14.09.2018	One day workshop on Save Drive & Safe Life, participants=39 NSS volunteers
18.09.2018 to 24.09.2018	A group of 26 B.Sc. Geography Honours students of Barasat Government College participated field excursion at Madarihat, Jaldapara, West Bengal for 7 days. The students' visit to the village of tea garden workers, the tribal village and the national park 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.
26.01.2019	Observed Republic Day, participants=39 NSS volunteers
02.02.2019 to 07.02.2019	Educational excursion and field study to Navegaon National Park and Tadoba (Maharashtra) with students of the Post Graduate Department of Zoology of Barasat Govt. College from 2.2.2019 to 7.2.2019
24.04.2019 to 30.04.2019	Seven Days Special Camping Programme, participants 39 NSS volunteers

I. GENDER SENSITIZATION AND AWARENESS PROGRAMMES

2018-19

Total Number - 02

Sl.No.	Date	Event	Participants
1	11.9.2018	Awareness Programme on Gender, Sexual Harassment and the Functioning of ICC	175
2	27.04.2019	Program on Self Defense of Women (NSS)	38



Program on Self Defense of Women (NSS)

J. Students' Academic Record 2018-19

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	22	21	91.00
	Chemistry	14	14	
	Zoology	22	19	
	Botany	15	14	
	Mathematics	31	29	
	Geography	26	26	
	Economics	5	3	
	English	49	45	
	Bengali	58	51	
	Philosophy	35	30	
	Political Science	53	49	
	Sanskrit	30	25	
	History	62	58	
	Total	422	384	
UG-General	B.A. General	271	173	70.23
	B.Sc. General	75	70	
	Total	346	243	
M.A./ M.Sc.	M.Sc. in Physics	23	23	100
	M.Sc. in Botany	29	29	
	M.Sc. in Zoology	30	30	
	M.A. in Bengali	28	28	
	Total	110	110	

K. TEACHERS PARTICIPATING IN FAULTY DEVELOPMENT PROGRAMS 2018-19
Total number -15

Sr. No.	Session	Name of participant	Title of Course	Duration
1	2018-19	Enamul Haque	Short Term Course Stress management and Counselling, Jadavpur University	3.1.2019-9.1.2019
2	2018-19	Enamul Haque	Short Term course on Modern Biology, Caccutta University	6.10.2018-1.10.2018
3	2018-19	Ruksanara Begum	Refresher Course in Research Methodology and Data Analysis for Social Sciences, Conducted By :UGC-HRD Center University of Burdwan, Burdwan	14.11. 2018 – 04.12. 2018
4	2018-19	Shrabana Mazumder	MHRD TEQIP-III sponsored Short-term course on Climate change risk on sustainable development in rural India (Fact, fiction, policy)	17.07.2018 to 019.07.2018
5	2018-19	Mihir Halder	Orientation Program-132, HP University, Shimla	22.4.2019 - 11.05.2019
6	2018-19	Md. Abdur Rafik Sardar	Short Term Course in Management and use of e- resources in Academic Libraries. Jadavpur University	23.08.2018- 29.08.2018
7	2018-19	Md. Abdur Rafik Sardar	Short Term Course in Peace Studies and Conflict Resolution. Calcutta University	14.11.2018- 20.11 2018
8	2018-19	Prasanta Paul	Faculty Development Programme (FDP) on DATA ANALYTICS at St. Xavier's University, Kolkata	26.11.2018 to 06.12.2018
9	2018-19	Shobhan Mandal	Inter disciplinary Refresher Course on Advances in instrumentation and automation: role of ICT at HRDC Jadavpur University.	03.12.2018 to 22.12.2018
10	2018-19	Balaram Das	UGC Sponsored Refresher Course UGC – Human Resource Development Centre, Pondicherry University	04.12.18 - 24.12.18
11	2018-19	Swaty Mitra	Short Term Course on Stress Management and Counselling Jadavpur University	03.01.2019 – 09.01.2019
12	2018-19	. Debjani Ray Moulik	Winter School in Comparative Language and Literature Calcutta University	31.12.2018 – 22.01.2019
13	2018-19	Aditi Bhattacharya	Refresher Course in Sanskrit Jadavpur University	27.08. 2018 – 15.09.2018
14	2018-19	Srikanta Guria	Refresher Course at University of North Bengal, Siliguri	14.11.2018 to 4.12.2018
15	2018-19	Somaditya Dey	114th Orientation Programme at Burdwan University	26.06.2019 to 16.07.2019

L. RESEARCH PROJECTS SANCTIONED IN CALENDAR YEAR 2018

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
Identification of house dust mites in relation to characterization of molecular pathway associated with asthma among West Bengal population in India	SANJOY PODDER (ZOOLOGY)	7.5548	3 Years	Higher Education, Science & Technonogy and Bio-Technology, Govt. of West Bengal
Studies on the diversity of mites infesting Tea in North Bengal, their management with bio-pesticides and assessing the resistant/ susceptible varieties by biochemical methods	SANJOY PODDER (ZOOLOGY)	5.603	3 Years	Department of Science & Technonogy, Govt. of West Bengal
Isolation and characterecterization of pesticides in West Bengal	NIRMALENDU DAS (BOTANY)	6.173	3 Years	Department of Science & Technonogy, Govt. of West Bengal



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



Principal
Barasat Govt. College
Govt. of West Bengal