Bidhannagar College (Govt. of West Bengal) 6.5.5: Activities conducted under collaborative Research



SI.	Name of the	Name of the	Year of	Purpose of the	Duration of	LIST OF
	MoU / linkage	institution / industry	signing MoU / linkage	MoU/Linkage	the MoU / linkage	activities under each MOU/ Linkage
	Collaborative					
		Dr. Mijanur Rahaman				
1		Molla of University of Calcutta	2018-19	Collaborative research	1year	Research
	Collaborative research for	Dr. Amit Saha of				
2	Bera	Jadavpur University	2018-19	Collaborative research	1year	Research
2	·	Dr. Chittaranjan Sinha	2040.40			
3	Adak	of Jadavpur University	2018-19	Collaborative research	1year	Research
4	Research for Ph.D of Kiranmoy Chatterjee	Dr. Diganta Mukherjee,Sampling and Official Statistics Unit, Indian Statistical Institute, Kolkata	2018-19	Collaborative research	1year	Research
5	Ph.D of Soumyadeep	Atanu Biswas and Samarjit Das of Indian Statistical Institute, Kolktata	2018-19	Collaborative research	1year	Research
6		Dr. Uttam Bandopadhyay of University of Calcutta	2018-19	Collaborative research	1year	Research
7	Collaborative research for Ph.D of Nibedita	Dr. Parimal Karmakar of Jadavpur University	2018-19	Collaborative research	1year	Research
8		Dr. Prajamitra Bhuniya of Imperial College, UK	2019-20	Collaborative research	1year	Research



	Collaborative					
	Research for					
	Ph.D of					
	Kiranmoy	Dr. Krishna Ray of				
9	Chatterjee	WBSU	2019-20	Collaborative research	9months	Research
	-					
	Faculty					
	exchange					
	programme of	Kanyashree College,				
10	Dr. Tapas Pal	Kolkata	2020-21	Faculty Exchange	1year	Faculty eyebange
10	Dr. Tapas Pai	KUIKata	2020-21	racuity exchange	туеаг	Faculty exchange
	Faculty					
	exchange					
	programme of	Kanyashree College,				
11	Dr. Tapas Pal	Kolkata	2021-22	Faculty Exchange	1year	Faculty exchange
	Faculty					
	exchange					
	programme of	Kanyashree College,				
12	Dr. Tapas Pal	Kolkata	2022-23	Faculty Exchange	1year	Faculty exchange
	Two-Days			r accord anomalige		areana, enemange
	National Level					
	Workshop on					
	Herbarium					
		CALL FLACE Determinal				
	methodology	CNH, EIACP, Botanical				
	and	Survey of India,				
	Macrofungal	KOLKATA				
	Taxonomy					
	Including					
	Phylogenetic					
13	Analysis		2022-23	Training	2days	Workshop
		CENTRE FOR				
		TRANSLATION OF				
		INDIAN LITERATURES,				
		JADAVPUR				
	TRANSLATION	UNIVERSITY, AND				
	WORKSHOP ON	CENTRE FOR STUDIES				
	DORIS LESSING	IN GENDER, CULTURE,				
		AND MEDIA, WEST				
		BENGAL STATE				
		UNIVERSITY, & DORIS				
		LESSING SOCIETY,				
14		SOUTH ASIA	2022-23	Training	2days	Workshop
						Faculty or d
						Faculty and
4-	N 4 - 1 1	Davis and C	2022 22	A sa danata a at	F	student
15	MoU	Barasat Govt. College	2022-23	Academic exchange	5years	exchange





	1			1	•	
16	MoU	Vital Waste	2022-23		Untill terminated by either party	Dry reclyclables and hazardous waste from the college premises
17 18	MoU MoU	Nataji Subhas Open University We for All	2022-23		Untill terminated by either party	To run PG study centre for theory and laboratory-based activities and to conduct exams as and when required in the College by providing necessary infrastructure. Develop communicating skills in English of the students of Bidhannagar College, organize debate/lectures
			2022-23		Untill terminated by either party	debate/lectures

J. R. Statist. Soc. A (2020)

Collaborative Research

On the estimation of population size from a dependent triple-record system

Kiranmoy Chatterjee

Indian Statistical Institute, and Bidhannagar College, Kolkata, India

and Prajamitra Bhuyan
Imperial College London, UK

[Received April 2018. Final revision April 2019]

Summary. Population size estimation based on a capture—recapture experiment under a triple-record system is an interesting problem in various fields including epidemiology and population studies. In many real life scenarios, there is inherent dependence between capture and recapture attempts. We propose a novel model that successfully incorporates the possible dependence and the associated parameters have nice interpretations. We provide estimation methodology for the population size and the associated model parameters based on the maximum likelihood method. The model proposed is applied to analyse real data sets from public health and census coverage evaluation studies. The performance of the estimate proposed is evaluated through extensive simulation study and the results are compared with existing competitors. The results exhibit superiority of the model over the existing competitors both in real data analysis and in a simulation study.

Keywords: Behavioural dependence; Disease surveillance; Maximum likelihood; Time-ordered capture; Trivariate Bernoulli model

1. Introduction

Estimation of population size or the number of vital events that have occurred, during a given time span, is a relevant statistical problem in various scientific disciplines including epidemiology, population studies and life sciences. Federal agencies are generally interested in such estimates for planning and policy formulation. In general, a census or any registration system often fails to capture all the individuals and that leads to undercoverage of the population under consideration. However, in some instances, duplicate records or members outside the target population are included in the census or any other registers because of erroneous enumeration. This issue is known as overcoverage, and it is a common practice to identify and remove the erroneous inclusions through administrative follow-up actions (Chipperfield *et al.*, 2017) or to adjust the census data on the basis of an estimate of the overcoverage rate (Zhang, 2015). In this paper, we focus only on the issues that are related to the commonly encountered problem of undercoverage, assuming that the available data are free from any erroneous inclusion. To reduce the undercoverage error, information from more than one attempt needs to be considered. The data that are obtained from various sources are summarized by matching the lists of captured individuals and analysed to obtain an estimate of the unknown population size (Rastogi and

Address for correspondence: Prajamitra Bhuyan, Department of Mathematics, Imperial College London, South Kensington Campus, London, SW7 2AZ, UK. E-mail: bhuyan.prajamitra@gmail.com

© 2019 Royal Statistical Society

0964–1998/20/183000

Effects of nutrient limitation, salinity increase, and associated stressors on mangrove forest cover, structure, and zonation across Indian Sundarbans

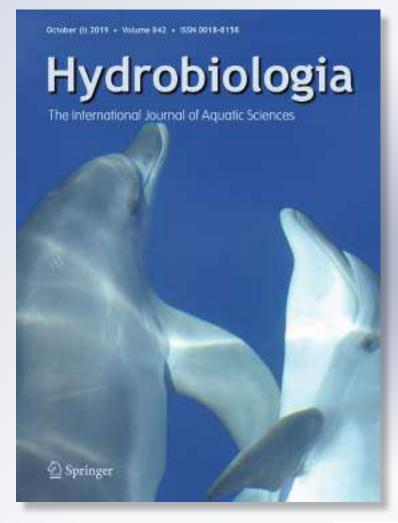
Rajojit Chowdhury, Tapan Sutradhar, Mst. Momtaj Begam, Chandan Mukherjee, Kiranmoy Chatterjee, Sandip Kumar Basak & Krishna Ray

Hydrobiologia

The International Journal of Aquatic Sciences

ISSN 0018-8158 Volume 842 Number 1

Hydrobiologia (2019) 842:191-217 DOI 10.1007/s10750-019-04036-9







Faculty Exchange

Government of West Bengal Higher Education Department, Appointment Branch Bikash Bhavan Salt Lake, Kolkata-91

No.994-Edn(A)/10M-36/20

Dated, Kolkata, 23rd December, 2020

NOTIFICATION

The Governor is pleased, in the interest of public services, to entrust the following Assistant Professors / Associate Professors in Economics under the West Bengal Educational Service with the additional charge of teaching in newly established Kanyashree College, Behala along with their regular duties at their present place of posting, until further order.

 Dr. Tapas Kumar Pal, Associate Professor of Economics, Bidhannagar College, Salt Lake, Kolkata.

2. Smt. Jayeeta Saha, Assistant Professor of Economics, Maulana Azad College, Kolkata.

The above mentioned teachers shall report for their new assignment at the earliest.

Sd/ S. Banerjee Assistant Secretary

No.994/1(10)-Edn(A)/10M-36/20

Dated, Kolkata, 23rd December, 2020

Copy forwarded for information and necessary action to:-

- The Director of Public Instruction, West Bengal.
- 2. The Additional Director of Public Instruction (Administration), West Bengal.
- The Principal/ Officer-in-charge, Bidhannagar College, Salt Lake, Kolkata. He is requested to continue to draw and disburse the salary of Dr. Tapas Kumar Pal as usual, until further order.
- The Principal/ Officer-in-charge, Maulana Azad College, Kolkata. He is requested to continue to draw and disburse the salary of Smt. Jayeeta Saha as usual, until further order.
- 5. The Principal/ Officer-in-charge, Kanyashree College, Behala, Kolkata.
 - Dr. Tapas Kumar Pal, Associate Professor of Economics, Bidhannagar College, Salt Lake, Kolkata.
- 7. Smt. Jayeeta Saha, Assistant Professor of Economics, Maulana Azad College, Kolkata.
- 8. The P.S. to the HMIC of this Department.
- 9. The Sr. P.A. to the Principal Secretary of this Department.
- 10. Guard file.

Assistant Secretary

Faculty Exchange

Government of West Bengal Higher Education Department, Appointment Branch Bikash Bhavan Salt Lake, Kolkata-91

No.994-Edn(A)/10M-36/20

Dated, Kolkata, 23rd December, 2020

NOTIFICATION

The Governor is pleased, in the interest of public services, to entrust the following Assistant Professors / Associate Professors in Economics under the West Bengal Educational Service with the additional charge of teaching in newly established Kanyashree College, Behala along with their regular duties at their present place of posting, until further order.

- Dr. Tapas Kumar Pal, Associate Professor of Economics, Bidhannagar College, Salt Lake, Kolkata.
- 2. Smt. Jayeeta Saha, Assistant Professor of Economics, Maulana Azad College, Kolkata.

The above mentioned teachers shall report for their new assignment at the earliest.

Sd/ S. Banerjee Assistant Secretary

No.994/1(10)-Edn(A)/10M-36/20

Dated, Kolkata, 23rd December, 2020

Copy forwarded for information and necessary action to:-

- 1. The Director of Public Instruction, West Bengal.
- 2. The Additional Director of Public Instruction (Administration), West Bengal.
- The Principal/ Officer-in-charge, Bidhannagar College, Salt Lake, Kolkata. He is requested to continue to draw and disburse the salary of Dr. Tapas Kumar Pal as usual, until further order.
- The Principal/ Officer-in-charge, Maulana Azad College, Kolkata. He is requested to continue to draw and disburse the salary of Smt. Jayeeta Saha as usual, until further order.
- 5. The Principal/ Officer-in-charge, Kanyashree College, Behala, Kolkata.
- 6. Dr. Tapas Kumar Pal, Associate Professor of Economics, Bidhannagar College, Salt Lake, Kolkata.
- 7. Smt. Jayeeta Saha, Assistant Professor of Economics, Maulana Azad College, Kolkata.
- 8. The P.S. to the HMIC of this Department.
- The Sr. P.A. to the Principal Secretary of this Department.
- 10. Guard file.

Assistant Secretary

Faculty Exchange

Memo No. UCAC-CS / F-12 /GL/ 12/ 2012 , Dated 20/11/22 ...



UNIVERSITY OF CALCUTTA

FACULTY COUNCIL FOR POST GRADUATE ACUPTES ARTS & COMMERCE,
SOCIAL WILLEFARE & BURSNISS MANAGEMENT
ASUTOSH BUILDINGS FOR 100 A 700 073

To

Sri Tapas Kumar Pal,

Sir/Madam

This is to inform you that under order of the vice-Chance or you have been appointed again purely on ad hoc basis as Guest Lecturer in the Department of MBM under the famility councils for P.G. Studies in Arts, Commerce & Business Studies, University of Calcutta. And honorarium of 1.5. 2000// per annum for delivering not more than 40 (forty) lectures in one year @ Rs. 500/- per lecture will be proposed at every three months for one year with effect from 01.04.2023 till 31.03.24 or w.e.f. your date of joint mill 31.03.24 or till the vacant post is filled in whichever is earlier. You are requested kindly to report to the Head //n change of the Department MBM for allotment of your duties if you are agreeable to accept the offer on the above terms and conditions. Date of Birth is required for regularizing the appointment and release of remuneration. The appointment will be subject to the existing rules and/ or rules to be framed or adopted by the University from time Please send your joining report to the Secretary , Paculty Councils for P.G. studies in Arts. Countered & Business Studies through the Head of the Department concerned.

N.B. No person should be allowed to join the University Service in any capacity whether as Teachers, Officers or Employees of any category (whole time, part time, permanent or temporary, unless he submits at the time of joining proof of his/her age to the Accounts Section as Necessary under ordinance).

This has been approved under orders of the Vice-Chancellor, 114. dated 28.10.2022

Secretary (Actg.)

Fueulty Councils for P.G. Studies

University of Calcutta

N.B. Guest lectures are requested to perform examination doties as and when required. Guest Lecturer As per Syndicate Resolution G.L will not be appointed after 65 years at large

Grafter.

Government of West Bengal Higher Education Department, Appointment Branch Bikash Bhavan Salt Lake, Kolkata-91

No.993-Edn(A)/10M-36/20

Dated, Kolkata, 23rd December, 2020

Faculty Exchange

NOTIFICATION

The Governor is pleased, in the interest of public services, to entrust the following Assistant Professors / Associate Professors in Geography under the West Bengal Educational Service with the additional charge of teaching in newly established Kanyashree College, Behala along with their regular duties at their present place of posting, until further order.

- 1. Dr. Chandan Surabhi Das, Associate Professor of Geography, Barasat Government College.
- 2. Smt. Shewli Shabnam, Assistant Professor of Geography, Bidhannagar College, Salt Lake, Kolkata.

The above mentioned teachers shall report for their new assignment at the earliest.

Sd/ S. Banerjee Assistant Secretary

No.993/1(10)-Edn(A)/10M-36/20

Dated, Kolkata, 23rd December, 2020

Copy forwarded for information and necessary action to:-

- 1. The Director of Public Instruction, West Bengal.
- 2. The Additional Director of Public Instruction (Administration), West Bengal.
- The Principal/ Officer-in-charge, Barasat Government College, District North 24 Parganas. He is requested to continue to draw and disburse the salary of Dr. Chandan Surabhi Das as usual, until further order.
- The Principal/ Officer-in-charge, Bidhannagar College, Salt Lake, Kolkata. He is requested to continue to draw and disburse the salary of Smt. Shewli Shabnam as usual, until further order.
- 5. The Principal/ Officer-in-charge, Kanyashree College, Behala, Kolkata.
- Dr. Chandan Surabhi Das, Associate Professor of Geography, Barasat Government College, District

 North 24 Parganas.
- 7. Smt. Shewli Shabnam, Assistant Professor of Geography, Bidhannagar College, Salt Lake, Kolkata.
- 8. The P.S. to the HMIC of this Department.
- 9. The Sr. P.A. to the Principal Secretary of this Department.
- 10. Guard file.

Assistant Secretary

Government of West Bengal Higher Education Department, Appointment Branch Bikash Bhavan Salt Lake, Kolkata-91

No.998-Edn(A)/10M-36/20

Dated, Kolkata, 23rd December, 2020

NOTIFICATION

The Governor is pleased, in the interest of public services, to entrust the following Assistant Professor in Mathematics under the West Bengal Educational Service with the additional charge of teaching in newly established Kanyashree College, Behala along with his regular duties at his present place of posting, until further order.

 Shri Shib Sankar Giri, Assistant Professor of Mathematics, Bidhannagar College, Salt Lake, Kolkata.

The above mentioned teacher shall report for his new assignment at the earliest.

Sd/ S. Banerjee Assistant Secretary

No.998/1(8)-Edn(A)/10M-36/20

Dated, Kolkata, 23rd December, 2020

Copy forwarded for information and necessary action to:-

- The Director of Public Instruction, West Bengal.
- The Additional Director of Public Instruction (Administration), West Bengal.
- The Principal/ Officer-in-charge, Bidhannagar College, Salt Lake, Kolkata. He is requested to continue to draw and disburse the salary of Shri Shib Sankar Giri as usual, until further order.
- 4. The Principal/ Officer-in-charge, Kanyashree College, Behala, Kolkata.
- Shri Shib Sankar Girl, Assistant Professor of Mathematics, Bidhannagar College, Salt Lake, Kolkata.
 - 6. The P.S. to the HMIC of this Department.
 - 7. The Sr. P.A. to the Principal Secretary of this Department.
 - 8. Guard file.

Assistant Secretary

Washington in Alamana

Estimation of Population Size with Heterogeneous Catchability and Behavioural Dependence: Applications to Air and Water Borne Disease Surveillance

Kiranmoy Chatterjee^{*} Prajamitra Bhuyan[†]

*Bidhannagar College Kolkata

†Department of Mathematics, Imperial College London, London

Abstract

Population size estimation based on the capture-recapture experiment is an interesting problem in various fields including epidemiology, criminology, demography, etc. In many real-life scenarios, there exists inherent heterogeneity among the individuals and dependency between capture and recapture attempts. A novel trivariate Bernoulli model is considered to incorporate these features, and the Bayesian estimation of the model parameters is suggested using data augmentation. Simulation results show robustness under model misspecification and the superiority of the performance of the proposed method over existing competitors. The method is applied to analyse real case studies on epidemiological surveillance. The results provide interesting insight on the heterogeneity and dependence involved in the capture-recapture mechanism. The methodology proposed can assist in effective decision-making and policy formulation.

Key words: COVID-19, Gibbs sampling, Hepatitis A, List dependence, Multiple systems estimation.

1 Introduction

The knowledge about the true prevalence of a disease in a specified period is an essential requirement for surveillance and effective policy formulation regarding the healthcare system of a state (Bird and King, 2018). In general, the available data source fails to cover all the relevant events and that leads to an undercount of the target population suffering from the disease. Therefore, disease ascertainment data are accumulated from multiple sources to increase the coverage and for the estimation of the disease prevalence (Papoz et al., 1996). This method is

Officer-in-Charge

Bidhannagar College EB-2, Salt Lake, Kol.-64



Getser in Charge

Received: 27 March 2020 Revised: 25 November 2020

Accepted: 13 March 2021

DOI: 10.1002/bimj.202000089

RESEARCH ARTICLE

Biometrical Journal

An optimal multiarmed response adaptive design for survival outcome with independent censoring 0

Soumyadeep Das

Rahul Bhattacharya²

- 1 Department of Statistics, Bidhannagar Government College, Kolkata, India
- 2 Department of Statistics, University of Calcutta, Kolkata, India

Correspondence

Rahul Bhattacharya, Department of Statistics, University of Calcutta, Kolkata 700 019, India.

Email: rahul_bhattya@yahoo.com



Abstract

Compromising ethics and precision in the context of a multiarmed clinical trial, an optimal order adjusted response adaptive design is proposed for survival outcomes subject to independent random censoring. The operating characteristics of the proposed design and the follow-up inference are studied both theoretically as well as empirically and are compared with those of the competitors. Applicability of the developed design is further illustrated through redesigning a real clinical trial with survival responses.



Original Research Article



Multi-arm covariate adjusted response adaptive designs for ordinal outcome clinical trials

Statistical Methods in Medical Research © The Author(s) 2022 Article reuse guidelines: sagepub.com/journals-permissions DOI: 10.1177/09622802221133558 journals.sagepub.com/home/smm









Abstract

Covariate adjusted response adaptive designs are developed with ordinal categorical responses for phase III clinical trial involving multiple treatments. Stochastic ordering principle is used to order the treatments according to effectiveness and consequently allocation functions are developed by combining the cumulative odds ratios suitably. The performance of the proposed designs is investigated through relevant exact as well as large sample measures. To investigate the performance in a real situation, a real clinical trial involving lung cancer patients is further redesigned using the proposed allocation design.

Keywords

Covariate adjusted response adaptive design, ordinal categorical responses, cumulative odds ratio, proportional odds model.

I Introduction

Clinical trials are carefully conducted research studies to find out the treatments that work best on subjects with a certain disease. Among the several phases of a clinical trial, phase III comprises of the large scale evaluation of treatments and hence is a crucial phase. In phase III of the clinical trial, the patients enter sequentially into the trial and assigned one of the available treatments. Complete randomization (CR) is the widely used allocation design in this regard for its simplicity and statistical performance (e.g. higher power). But from a critic's viewpoint, CR lacks individual ethics as it is blind to treatment performances and hence does not skew the allocation towards the better performing treatments. On the other hand, response adaptive randomization (RAR) uses the available allocation and response information of the patients to update the allocation probabilities so that treatments doing better are used more often. ^{1,2} Thus a RAR is more desirable as it compromises collective ethics (identifying a true difference in treatment effectiveness with high statistical power) with individual ethics (maximum number of patients are treated by the superior treatments eventually).

Depending on the nature of the trial, often the responses of the patients are measured in ordinal categorical scale. For example, the response of a rheumatoid arthritis³ patient can be any of the following: nil, mild, moderate, and severe. As another example, the responses in cancer trial may be either of the ordinal categories: death, progressive disease to complete remission. Ordinal responses are also reported in trauma⁴ and sports related knee injury⁵ trials. Another example of ordinal outcomes is the WHO Clinical Progression Scale, which is a 11-point scale (0: not infected to 10: dead) and is advantageous for the use in an emerging infectious disease epidemic. In a very recent article on the final report of the Remdesivir trial with Covid-19 patients, though the primary outcome is length of recovery time, but the patient response was measured in an ordinal eight point scale. Although these real trials used fixed allocation designs, but development and advantage of RAR in this context can be found in the works of Bandyopadhyay and Biswas, ^{7,8} Biswas et al., ⁹ Biswas et al., ^{10–12} and Das et al., ¹³ among others.

Although these developments assumed homogeneity of patients, but in reality, they may differ with respect to covariates like age, sex and health conditions. So, adapting covariate information into the design phase of the trial is desirable to

Corresponding author:

Rahul Bhattacharya, Department of Statistics, University of Calcutta, Kolkata 700019, India. Email: rahul_bhattya@yahoo.com



¹Department of Statistics, Bidhannagar Government College, Kolkata, India

²Department of Statistics, University of Calcutta, Kolkata, India

³Applied Statistics Unit, Indian Statistical Institute, Kolkata, India







TWO- DAY NATIONAL LEVEL WORKSHOP ON HERBARIUM METHODOLOGY AND MACROFUNGAL TAXONOMY INCLUDING PHYLOGENETIC ANALYSIS

ORGANIZED BY

THE PG DEPARTMENT OF BOTANY BIDHANNAGAR COLLEGE (BNC) M COLLABORATION WITH CENTRAL NATIONAL HERBARIUM (CNH.) BOTANICAL SURVEY OF INDIA (BSI.)

ENVIRONMENTAL INFORMATION, AWARENESS, CAPACITY BUILDING AND LIVELIHOOD PROGRAMME (EIACP) PC-RP, BSI



DR. SAURABH CHAKRABORTI PRINCIPAL, BNC

PROGRAM COORDINATORS-

DR. KANAD DAS Scientist 'e', CNH, BSI

OR. R.K. GUPTA Scientist 'e' and in Charge, CNH, BSI CONVERER DR. MOUSUMI MUKHOPADHYAY, BNC

ORGANIZING SECRETORY
OR. SUBHADIPA SENGUPTA, BNC

TREASURER DR. KAUSIK MAJUMDER, BNC **EXECUTIVE COMMITTEE**

SRI BENUDHAR MANDAL, BNC

DR, BHARATI MUKHOPADHYAY, BNC

REGISTRATION

FEE - 700/

BR. KAJARI LAHIRI, BNC

DR. K. KARTHIGEVEN

SCIENTIST 'E', CNH, BSI AND SCIENTIST IN CHARGE, EIACP PC-RP, BSI

DR. SANTANU SAHA HEAD, BEPARTMENT OF BOTANY, BNC

ELIBIBILITY FOR PARTICIPATION- POST GRADUATE STUDENTS OF BOTANY

REGISTRATION IS MANDATORY FOR PARTICIPATION
LAST DATE OF REGISTRATION-15.04.23
INTIMATION TO THE SELECTED PARTICIPANTS-20.04.23
NUMBER OF SEATS LIMITED

BANK DETAILS FOR PAYMENT OF REGISTRATION FEES-

NAME OF THE BANK - BANK OF BARODA SALT LANE SECTOR 1 BRANCH ACCOUNT NUMBER- 34850100004875 IFSC CODE- BARBOSALKOL IFIFTH CHARACTER IS ZEROI

CONTACT PERSON- DR. MOUSUMI MUKHOPADHYAY (9434506048)

REGISTARTION LINK

PARTICIPANTS WILL HAVE TO BRING THEIR OWN LAPTOPS

Bidhannagar College

https://forms.gle/mWMKasmmSMM7WAJfA

dhannagar College was established in 1984, with the aim of providing ality education to students. It is a Government Institution directly under a aegis of the Department of Higher Education, Government of West ingal. The College plays a pivotal role as a premier educational Institute students pursuing higher studies. The Botany Under Graduate partment started in 1997 and subsequently Post Graduate Course was

Bidhannagar College

Bidhannagar College was established in 1984, with the aim of providing quality education to students. It is a Government Institution directly under the aegis of the Department of Higher Education, Government of West Bengal. The College plays a pivotal role as a premier educational Institute for students pursuing higher studies. The Botany Under Graduate Department started in 1997 and subsequently Post Graduate Course was introduced in 2019. Experienced, dedicated and inspiring faculty members of sixteen Under Graduate (Honours) and six Post Graduate departments are ever committed to provide positive, in-depth and intellectual learning environment that allows students to be thinkers, inspired learners and creative problem solvers.

About the Herbarium

A herbarium can be defined as a repository of dried plant collections which are poisoned, mounted, stitched, labelled and systematically arranged based on a recognized classification for reference and use in taxonomic research. Herbarium specimens are often used to verify the identity of the specimens collected. In recent times herbarium collections have become an important document to study the effect of climate change and species composition of an area and also helps to plan conservation strategies based on the data on the occurrence of the species in the past. The herbarium also plays an important role as a conservatory of dried plant material, archival record of a region's flora, source of botanical information and diversity. It thus aids in biological research and teaching.

About Macrofungi

Macrofungi refers to all fungi that produce visible fruiting bodies. These fungi are evolutionarily and ecologically very divergent. The Kingdom Fungi one of the oldest and largest groups of living organisms, is a monophyletic group, thereby meaning that all modern fungi can be traced back to a single ancestral organism. The phylogenetic classification of fungi is designed to group all the fungi on the basis of their ancestral relationships.

How to get in

Bidhannagar College EB 2, Sector 1, Salt Lake Kolkata- 700064

- Nearest Railway Station Bidhannagar Road
- Nearest Metro Station- City Centre
- Nearest Bus Stop- Vidyasagar Island













Two-Days National Level Workshop on Herbarium Methodology and Macrofungal Taxonomy Including Phylogenetic Analysis

organised by

PG Department of Botany, Bidhannagar College, Kolkata in collaboration with Central National Herbarium

Environmental Information, Awareness, Capacity Building and Livelihood Programme (EIACP)
Programme Centre-Resource Partner on Biodiversity (Flora)
Botanical Survey of India

on 25st & 26th April, 2023 (Tuesday & Wednesday)

of PG Department of Botany, Bidhannagar College, Kolkata

PROGRAMME SCHEDULE

	Day I: 25.04.2023 (Tuesday)
09.00 - †0.00 hrs.	Registration
10.05 - 10.30 hrs	Inaugural Programma
10:35 - 11:00 hrs	High Tee Break
11.05 – 12.00 fes	Lecture I: Herbarium Methodology By: Dr. K. Karthigeyan
12 05 - 13 00 lvs	Lecture It: Vibusi Herbarium By: Dr. Kumar Avinash Bharati
13.05 - 14.00.)us	Lunch Break
14 05 - 15 00 lvs	Lecture III: Different websites used in Plant Texonomy By: Dr. Anand Kumaii
15.05 - 17.00 hrs	Hands on Training on Herbarium Methodology By: Or, Anand Kumar, Dr. Shyam Biswa, Ms. Ruma Bhadra, Mr. Sudipts Serder
	Day II : 26.04.2023 (Wednesday)
10.00 ~ 11.00 lvs	Lecture I: Diversity, morphotaxonomy and molecular phylogeny of wild mustroom By: Dr. Kanad Das
11.00 - 13.00 hrs	Hands on Training on Macrofungal identification By: Dr. Manoj Hembrom, Dr. Sudeshna Dusta & Dr. Anket Ghosh
13.05 - 14.00 hrs	Lunch Break
14.05 - 16.30 hrs	Hands on Training on Phylogenetic analysis By: Or Anket Ghosh
16 30 - 17 00 hrs.	Valedictory Session







Gr.













Officer-in-Charge Bidhannagar College EB-2, Salt Lake, Kol.-64







Report of Two days National Level Workshop on Herbarium Methodology and Macrofungal Phylogenetic Analysis

Post Graduate Department of Botany had organized 2 days National Level Workshop on Herbarium Methodology and Macrofungal Phylogenetic Analysis in collaboration with Central National Herbarium and EIACP PC RP of Botanical Survey of India on 25th and 26th April, 2023. The 1st day focused on herbarium methodology and the 2nd day was dedicated to Mycology.

On the 1st day a remarkable and valuable speech was delivered by Dr. K. Kartigeyan,, Scientist 'E', of the Central National Herbarium, Botanical Survey of India, Howrah, in the context of Herbarium Methodology and it was followed by the resourceful deliver by Dr. Kumar Avinash Bharati, Scientist 'D', on Virtual Herbarium and the third lecture was by Dr. Anand Kumar on various websites used in plants which are very user friendly while dealing with plant materials. We gained a vast knowledge on herbarium methodology during our hands on training session by the experts of BSI.

On the 2nd day, lecture was given by Dr. Kanad Das, Scientist 'E', Botanical Survey of India, Central National Herbarium, Howrah on diversity, morphology and molecular-phylogeny of Wild Mushroom which has opened a new dimension on mycology. Hands on training on macro fungi identification and phylogenetic analysis was really impressive and a valuable resource to all of us both for our practical classes and field visit.

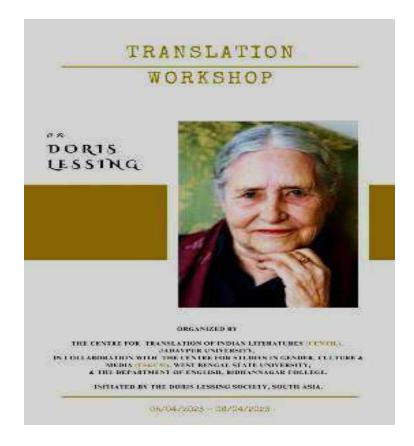
On these two days programme, there are 32 participants of which 30 are post graduate students of various colleges such as Bidhannagar College, Bethune College, Barasat College, Srirampur College, Rahara RKMVC College, besides two faculty members of Bethune College.



A WORKSHOP INITIATED BY DLSSA

TRANSLATING LESSING

A COLLABORATION OF 'CENTIL', JU, 'CSGCM' WBSU & BIDHANNAGAR COLLEGE, KOLKATA, April 5&6 2023



Officer-in-Charge Bidhannagar College EB-2, Salt Lake, Kol.-64

The Plan

At the time of its inception in 2022 Doris Lessing Society, South Asia had decided that it will promote Lessing studies through webinars, reading sessions and through translations into South Asian languages. The first year of the chapter was limited to virtual events as Covid continued in India. However, the plan for a physical event, to mark its presence and reach out more palpably to readers and scholars, was necessary. So when CENTIL agreed to a translation workshop, somewhat hesitantly, DLSSA and CSGCM (of West Bengal State University), that houses it, went full out to actualise the event *Translating Doris Lessing into Bengali*.

The idea was to take up short stories of Lessing, in order to rope in more people in the project, thereby enlarging the readership. It was felt that the project will stand to gain greater access to modern readers, especially young readers. The short stories being academically less plumbed and possibly untranslated were additional encouragement. It was also decided that the project will be both product and process driven, hence it will spread over two days. Day One will be held at CENTIL, Jadavpur University, for the professional translators, selected from the Kolkata academe and with Professor Ahsanuzzaman, from Dhaka; unfortunately he couldn't join us in person. Day Two was planned for young scholars to be held in Bidhannagar College, to ensure the sustainability of the translation activity of Day One by sharing it with students and young scholars.

The Event



The workshop was conducted with more than expected success on April 5&6 2023. Fourteen short stories were chosen from Lessing's wide corpus: one for the young scholars' collaborative translation, and thirteen for the professionals. I am appending a list of the stories at the end for the record and for general interest. The discussion in the end was stimulating. Each translator pointed out their respective challenges and strategies.

Officer-in-Charge Bidhannagar College EB-2, Salt Lake, Kol.-64

The dominant points of the discussion were about Lessing's involved sentences and dense prose which posed a natural challenge. The circular nature of her narrative, that gives an impression of repetition till one recognises the trick of the pattern, often tempted the translators to edit and compress the passages, only to realise that by doing so they would go against the rules of translation. The nuances of the English language, at times untranslatable, and culture specific references were additional woes. The translators pointed out how the polyphonic nature of the texts required them to manoeuvre and employ different linguistic registers to faithfully represent the different voices. Use of pronouns and shifts in tenses between the diegetic and mimetic elements of a story required special attention. The 'you' of English was translated to its three Bengali synonyms based on the discretion of the

translator and matching the suitability of the context. Much discussion followed the question of tenses, and the differences between their application in English and Bengali usage. Some of the translator's were overwhelmed by her style and/or theme and felt somewhat out of their comfort zone of experiences. Then there were certain titles like 'A Story of a Non-Marrying Man' which is about a man who is married many times, but fails to stay in a relationship. It

was difficult to capture the title in Bengali without disturbing the essence of the primary text and remained an unsolved problem.

The strategies adopted by the translators involved retaining English words which are natural loans in Bengali, while maintaining a



parity of sorts. For instance, if 'drawing room' and 'perfume' were retained untranslated then there was no need to translate 'farm', 'flat', 'airport' or 'weekend', it was decided. The proficient translators offered interesting turns of phrases and compound words that brought out the power and beauty of Lessing's narratives and demonstrated the skill of the translator. It also promised to make the volume an enjoyable read.



Day Two was a big success. Professor Aveek Majumder, the 'Translation Resource Person' on both days was perspicacious with his comments, which added further worth to the worksop. In his plenary speech he outlined the tradition of translation into Bengali and the reasons why Doris Lessing's long and unconventional life and varied nature of her work would be both a delight and ordeal for the translator. The

story chosen was 'Storm' and the fifteen scholars were divided into three groups and the story was further divided within the groups. In a little over an





hour the first draft was ready. Each translator read out their portion of the translated story followed by observations and rectifications.

The workshop was a success not just because it got the participants of the project, *Translating Lessing*, together to discuss the issues of the process. It was a success as it had over thirty people, people who were not familiar with Lessing before this, entrenched in the nitty-gritties of Lessing's works. Though it is going to be a long way to go, with much hard work, to make the product commendable. The happy takeaway is the promising commencement that has put Lessing on the academic map in this region.





Translators and the Stories

(Assigned by CSGCM)

Chaiti Mitra—To Room Nineteen

Saurabh Bhattacharyya—The Temptation of Jack Orkney

Mitali Ganguly—A Woman on a Roof

Tanmaoy Bhattacharya—An Old Woman and her Cat

Monami Mukharjee—The Black Madonna

(Assigned by CENTIL)

Rikdeb Bhattacharya: Debbie and Julie
Payel Basu: How I finally Lost my Heart (11)
Epsita Halder: The Trinket Box 8 pages

Dyuti Mukherjee: Little Tembi

(Assigned by BNC)

Ahmed Ahsanuzzaman -Lucy Grange

Dipankar Sen -The Habit of Loving

Samrat Laskar - The Old Chief Mshlanga

Debapratim Chakraborty - The Story of a Non-Marrying Man

Memo No. UCAC-CS/F-12/GU/0/2/2012 Dated 10/11/22



UNIVERSITY OF CALCUITA

FACULTY COUNCIL FOR POST GRADUAL) STUDIES ARTS & COMMERCE, SOCIAL WELEFARE & BUISNEY, MANAGEMENT ASSTOSH BUILDING CALCULTA - 209 073

To

Sri Tapas Kumar Pal,

Sir/Madam

This is to inform you that under order of the Vice-Chancellar you have been appointed again purely on ad-hoc basis as Guest Lecturer in the Department of MBM under the faculty councils for P.G. Studies in Arts, Commerce & Business Studies, University of Calcutta. And honorarium of Rs. 70000/- per annum for delivering not more than 40 (forty) lectures in one year @ Rs. 500/- per lecture will be p. yable at every three months for one year with effect from 01.04.2023 till 31.03.24 or w.e.f. your date of joining till 31.03.24 or till the vacant post is filled in whichever is earlier. You are requested kindly to report to the Head /In charge of the Department MBM for allotment of your duties if you are agreeable to accept the offer on the above terms and conditions. Date of Birth is required for regularizing the appointment and release of remuneration. The appointment will be subject to the existing rules and/ or rules to be framed or adopted by the University from time to time. Please send your joining report to the Department concerned.

N.B. No person should be allowed to join the University Service in any capacity whether as Teachers, Officers or Employees of any category (whole time, part time, permanent or temporary, unless he submits at the time of joining proof of his/her age to the Accounts Section as Necessary under ordinance).

This has been approved under orders of the Vice-Chancellor, C.C. dated.....28.10.2022

Officer-in-Charge Bidhannagar College EB-2, Salt Lake, Kol.-64 Secretary (Actg.)
Faculty Councils for P.G. Studies
In Arts, Commerce & Business Studies

University of Calcutta

N.B. Guest lectures are requested to perform examination duties as and when required. Guest Lecturer As per Syndicate Resolution G.L will not be appointed after 65 years of age. 21221

Fluorescence sensing and intracellular imaging of Pd²⁺ ions by a novel coumarinyl-rhodamine Schiff

Arup Kumar Adak, ab Rakesh Purkait, b Saikat Kumar Manna, s Bankim Chandra Ghosh, Sudipta Pathak and Chittaranjan Sinha

Cournarinyt-rhodamine, HCR, served as an extremely selective sensor for Pd2+ ions in ethansi/H₂O (8:2 v/v, HEPES buffer, pH 7.2) solution and the limit of detection (LOD) was 18.8 nM (3a method) The free sensor. HCR, was weakly emissive and in the presence of Pd²⁺, the colour changed from straw to pink with very strong emission at 598 nm in the presence of eighteen other cations. A plautible mechanism involved opening of the spirolactam ring of modamine on interaction with Pd²* which was justified by structure optimization and transition energy calculations using the DFT technique HCR underwent 1:1 complexation with Pd2+, which was confirmed via the Job's plot mass spectra and Benesi-Hildebrand plot (association constant K_0 , 9.1 \times 10⁴ M⁻¹). A separate in vitro experiment showed that HCR could specifically sense Pd2+ in MCF7 (human breast adenocarcinomal cell lines

newed 25th December 2018. ucored 76th January 2019

00 1210391c8n 06511

1 Introduction

is the last few years, the development of methods for the ortifation and sensing of platinum group metals (PGMs) has word considerable interest because of their enormo biological, myromental, industrial and chemical significant. Among tine, paladium, a precious metal, has become or the most anothe sensing targets in recent years because of its and catalytic ue is the synthesis of organic and pharmaceutical model ades, fuel els dental appliances, medical devices, electrical equipments, in the Pd-catalysed reactions, either the Pd(0) may be enperarily exidized or Pd(w) may be reduced to Pd(w) during the matters. The final product is often contaminated with a Pd(n) murity even after rigorous purification. Such contamination at in ultritrace level in industrial products may cause serious inith problems. Due to its thiophilic nature, palladium can had with DNA, proteins and other macromolecules and disturb t triety of cellular processes.7,8 Moreover, palladium also linders the activity of many enzymatic reactions such as those of alkaline phosphatase, creatine kinase and prolyl hydroxylase (hypoxia-inducible factor).930 Therefore, various analytical techniques are used for the quantitative analysis of palladium, Popular techniques include inductively coupled plasma-mass spectrometry (ICP-MS), atomic absorption spectrometry (AAS), solid-phase microextraction high performance liquid chromatography (SPME-HFLC) and X-ray fluorescence spectroscopy. 11-13 However, these methods require sophisticated highly expensive equipments, extensive sample preparation steps, and time-consuming and high salaried experts. Among these different techniques used for the analysis of palladium ions, colorimetric and fluorometric techniques are more convenient and dependable for the rapid and sensitive detection of palladium both qualitatively and quantitatively because of their simplicity, selectivity and sensitivity. Hence, the development of palladiumselective fluorescent probes is extremely essential. Pd*, being a heavy transition metal ion with open shell electronic configuration, is a typical fluorescence quencher.14 Based on the ON-OFF1 or OFF-ON16,17 mechanism, some fluorescent chemosensors and chemodosimeters are synthesized for identifying palladium species. For the design of a sensor, the important objectives are long-wavelength emission and ecofriendly availability of fluorescent chemosensors. Thus, rhodamine-functionalized chemosensors are receiving considerable interest in current years. 18 For the last couple of years, we have considered a strategy to design modamine derivatives for the identification of trace levels of Pd; allyl ether Schiff base of rhodamine 19 was tested for the detection of total Pd at 50 nM, while allyl ether hydrazone rhodamine could detect as low as 95 nM concentration 10 at pH 7.2. The performance of rhodamine derivatives inspired us to synthesize never

Openment of Chemistry, Bidhannagar College, EB-2, Sector - 1, Salt Lake, telenorosses, West Bengul, India Operates of Chemistry, Judician University, Kolkata-700032, West Bengal, de I net orgation generation

Street of Chemistry, Heldia Govt. College, Debhog, Haldia, and Majorper 722657, West Bengal, India

Dennistry, Durgapur Gost, College, J. N. Avenue, Durgapur, and herichance 713214, West Bengal, India

supplementary information (ESI) available. See DOL 10.1039/



University of Calcutta Senate House, Kolkata - 700073

Date of Enrollment: 5th June 2018

Registration Number: 04630/Ph.D.(Sc.)Proceed/2019

Date of Registration: 4th July 2019

(Please quote the above Number and Date in all future Correspondence)

From:

Deputy Registrar University of Calcutta

To:

Sri Sk Asraf Ali Vill- Machinan, P.O.- Gopalnagar, P.S.- Kolaghat, Dist.- Purba Medinipur, Pin-721130.

Dear Sir,

I am desired to inform you that you have been granted registration for the Ph.D. programme under this University in Chemistry (Organic) in terms of 6.6 of the Regulations for the Degree of Doctor of Philosophy (Ph.D.), C.U., framed under UGC Guidelines, 2016.

This registration shall remain valid for next six years with effect from the date of enrolment as indicated above.

You are to comply with the usual rules of migration in case you have passed the qualifying examinations for the Ph.D. programme from a University/Institute other than the University of Calcutta.

Title of Thesis

"Synthetic Studies Towards Isoindolinones And Pyrrole Fused Heterocycles."

Name of the Supervisor : Dr. Mijanur Rahaman Molla

Name of the Joint Supervisor : Dr. Shubhankar Samanta

Name of the Associate Supervisor : X

Suf Allested SK Asing Ale'

Yours faithfully,

Date of Letter: 5th July 2019

05/2/19 Deputy Registrar

MARCH

N.B. Please see the instructions overleaf.



Dr. Amit Saha

Assistant Professor Organic Chemistry Section Department of Chemistry Jadavpur University

Telephones: 033-24572981, 91-9433950204 Email: amit.saha@jadavpuruniversity.in Dr. Shubhankar Samanta

Assistant Professor Department of Chemistry Bidhannagar College Telephone: 91-9775550193 Fax: (9133) 2337 4782

Email: chemshubha@gmail.com

TO WHOM IT MAY CONCERN

This is to certify that the thesis entitled "Environmentally benign synthetic routes to fused heterocycles and their photophysical studies", submitted by Mr. Anirban Bera who got his name registered on 12-10-2018 (Index No.- 235/18/Chem./26) for the award of Ph.D. (Science) degree, Jadavpur University, is absolutely based upon his own research work under our supervision and that neither this thesis nor any part of it has been submitted for either any degree or diploma or other academic award anywhere else before.

Research Supervisor (s)

A-1-5 28.06.2023

Dr. Amit Saha

Supervisor
Dr. Amit Saha
Assistant Professor
Department of Chemistry
Jadavpur University
Kolkata-700032, India

Shubhankar Samanta 28.06.2023 Dr. Shubhankar Samanta

Joint-Supervisor

Dr. Shubhankar Samanta Assistant Professor (WBES) Department of Chemistry Bidhannagar College Salt Lake, Kol-64

OLS: Is That So Useless for Regression with Categorical Data?

Atanu Biswas, Samarjit Das and Soumyadeep Das

Abstract Binary/categorical response data abound in many application areas poses a unique problem; OLS-based model may lead to negative estimate for probability of a particular category and does not provide coherent forecast for the response variable. This unique and undesirable property of linear regression with categorical data impedes the use of OLS which otherwise is the simplest and distributionally robust method. The logit or probit kind of solution is heavily distribution dependent or link function dependent. Failure of such distributional assumption of the underlying latent variable model may cost the estimators heavily and may lead to biased and inconsistent estimates, in general. In this paper, we attempt to fix the inherent problem of linear regression by suggesting a simple manipulation which, in turn, leads to consistent estimates of probability of a category, and results in coherent forecasts for the response variable. We show that the proposed solution provides comparable estimates, and sometimes, with respect to some criterion, the proposed method is even slightly better than the logit kind of models. Here, we consider different underlying error distributions and compare the performances of the two models (in terms of their respective residual sum of squares and also in terms of relative entropy) based on simulated data. It is evidenced that the OLS performs better for many distributions. viz., Gamma, Laplace, and Uniform error distributions.

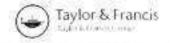
Keywords Logit model • Ordinary least square • Residual sum of squares Relative entropy

A. Biswas Applied Statistics Unit, Indian Statistical Institute, Kolkata, India

S. Das Economic Research Unit, Indian Statistical Institute, Kolkata, India

S. Das (図)
Department of Statistics, University of Calcutta, Kolkata, India
e-mail: das.soumyadeep1992@gmail.com

O Springer Nature Singapore Pte Ltd. 2019
A. K. Laha (ed.), Advances in Analytics and Applications, Springer Proceedings in Business and Economics, https://doi.org/10.1007/978-981-13-1208-3_18



JOURNAL OF STATISTICAL COMPUTATION AND SMULATION https://doi.org/10.1080/00949655.2019.1575381

Nonparametric approaches for comparing three-period, two-treatment, four-sequence crossover designs

Survasion Chatterjee, and Uttam Bandyopadhyay

*De-lartment of Statistics, Bidhannagar College, Kolkata, India; *Department of Statistics, University of Calcutta, Kolkata, India

BSTRACT

he paper describes nonparametric approaches for comparing aree-period, two-treatment, four-sequence crossover designs wrough testing the hypothesis that the treatments are interchangeble. The proposed approaches are based on a model which incorporates, along with the direct treatment effects, self and mixed carryover effects. Related asymptotic results are obtained. Comparisons among the designs are made numerically with respect to type I error rate and power of the tests considering compound symmetry and autoregressive covariance structures of the response variables. Lengths of the confidence intervals of the treatment differences are also used to make comparative study among the designs.

ARTICLE HISTORY

Received 18 January 2018 Accepted 24 January 2019

KEYWORDS

Asymptotic distribution, asymptotically distribution-free: Balaam's design; crossover design, mixed carryover effect; sell carryover effect, step-down approach

1. Introduction

In clinical research, where two or more treatments are under comparison, patients receive tre, trents in groups. Here it is important that single measurement from each patient is not appropriate in the statistical sense and it may produce bias due to his/her initial condition. This emerges the concept of repeated measurement studies by which subjects are given treatments more than once over time. Crossover and parallel group trials produce such studies in practice. In particular, when disease under study is chronic and stable (e.g., cancer, arthritis, obesity, asthma), clinical researchers are inclined to crossover trials as they possess certain medical ethics.

In crossover design with more than two periods, there should be a restriction to those designs in which the first two periods represent one of the basic crossover designs. Thus, for comparing two treatments, denoted by A and B, through crossover design, the first two periods should be [AB, BA] (usual crossover design) or [AA, AB, BA, BB] (Balaam's design). See, for example [1–3]. This is because of the fact that, if the extra treatment periods result in an excessive number of withdrawals, it will still be possible to carryout analysis with the first two periods in the usual way [4]. This leads us an approach to get a three-period design with a view to achieve higher efficiency than the corresponding two-period cro-sover design.

যাদবপুর বিশ্ববিদ্যালয় কলকাতা-৭০০০৩২, ভারত



*JADAVPUR UNIVERSITY KOLKATA-700 032, INDIA

Ref. No. D-7/Sc/365/16

Dated : 09, 11, 2016.

To.

Smt. Nibedeeta Rani Sarraf C/O.: – Prof. Parimal Karmakar Head Dept. of Life Sc. & Bio-technology Jadavpur University Kolkata-700032.

INDEX No: 221/16/Life Sc./25

Dear Sir / Madam,

With reference to your application for the registration for Ph.D.(Science) degree of Jadavpur University, I am to inform you that you are permitted to register your name on payment of requisite fees for Ph.D. programme of Rs.22,000/-(Rupees Twenty-Two Thousands Only), payable in three semi annual installments (Rs.8000/- + Rs.6000/-). It may be noted that this offer is provisional until all the documents mentioned below are submitted.

The registration will be valid from the date on which the fees are paid and shall remain valid for five years from that date. Subsequently the period of registration may be extended only for two consecutive one year terms if the grounds for extension satisfy the Doctorate Committee. An application requesting extension and citing the grounds for the same must be submitted each time, duly forwarded and recommended by the supervisor(s), before the date on which the validity of the registration expires.

The scheme of the work and title of the thesis, if not submitted along with the application, shall have to be submitted within one year from the date of registration of the candidate. Otherwise, the registration is liable to cancellation as per Regulations of the University.

If the registration fee is not paid within a month from the date of issue of this letter, your application stated above will be treated as cancelled. The registration is liable to cancellation if the progress of work is not satisfactory. It may be noted that you will have to fulfil the condition of residence requirement and have to complete the course work within two years from the date of registration as laid down in the Regulations of the University.

Mode of payment as follows:

1st instalment - within 30 days.

2nd instalment - within 180 days

3rd instalment - within 365 days.

Yours faithfully,

(Dr. Atiskumar Chattopadhyay) Secretary

Faculty of Science.

Phone : 2414-6666/6194/6643/6495/6443

Fax : (91)-033-24)4-6414/2413-7121

List of required documents:
(i) Original Migration Certificate. -> Received on 23/11/16

*Established on and from 24° December, 1955 vide Notification No.10986-Edn/IU-42/55 dated 6° December, 1955 under Jadaxpur University Act, 1955 (West Bengal Act XXIII of 1955) followed by Jadaxpur University Act, 1981 (West Bengal Act XXIV of 1981)

Phone: (033) 2337-4761 Fax: (033) 2337-4782

NETAJI SUBHAS OPEN UNIVERSITY

BIDHANNAGAR COLLEGE STUDY CENTRE EB-2, SALT LAKE, SECTOR - I, KOLKATA - 700 064

20
20
•

Report on MoU between Bidhannagar College and Netaji Subhas Open University

The Memorandum of Understanding MoU was signed between Netaji Subhas Open University and Bidhannagar College on 27th December 2022. The event was taken place in the Netaji Subhas Open University main campus at Salt Lake Kolkata 64. The principal of Bidhannagar College, Dr. Saurabh Chakraborti and the Director of Study Centre, Netaji Subhas Open University, Dr. Asit Baran Aich signed this MoU. Assistant Director, Study Centre, NSOU and the Academic Coordinator, Bidhannagar College Study Centre were also present in the event. This MoU was the extension and revalidation of the previous MoU with the study centre for successful and smooth running of the PG courses of NSOU at Bidhannagar College. Bidhannagar College Study Centre also known as Bidhannagar College Learners Support Centre (LSC) will provide different logistics and infrastructural facilities, academic and research support to the learners for their academic and professional development. Present student strength of the LSC is 25 per batch.

Summeris

Academic Coordinator

NSOU LSC (I-09)

Bidhannagar College

Salt Lake, Kolkata-64

ACADEMIC CO-URDINATON NSOU STUDY CENTRE BIDHANNAGAR COLLEGE EB-2. SECTOR- I SALT LAKE KOLKATA- E1

Faculty Exchange with Barasat Govt. College



GOVERNMENT OF WEST BENGAL

BARASAT GOVERNMENT COLLEGE

NAAC ACCREDITED "A" GRADE & DST-FIST SPONSORED COLLEGE



10, K.N.C. Road, Barasat, Kolkata - 700124, West Bengal, India

Phone: (033) 2562 5053, Office: (033) 2552 3365, Fax	c: (033)	2562 5053	, Website : www.bgc.a.in, Emai	l: principal@bgc.ac.in
--	----------	-----------	--------------------------------	------------------------

Memo no	Date

The following collaborative activities have been completed in accordance with the Memorandum of Understanding signed by Barasat Government College, Barasat and Bidhannagar College, Salt Lake on 19th May 2023.

	Activity Type	Date/ Duration	Faculty details	Activity details Syllabus/Paper code/ Topic Covered	Number of participants
1.	Syllabus Oriented Class	24/05/2023	Ms. Rituparna Khan, Assistant Professor, Department of Geography, Bidhannagar College	UG Semester IV Topic: Growth and Development	51
2.	Seminar Lecture	25/05/2023	Dr. Swaty Mitra Assistant Professor, Department of English, Bidhannagar College	UG Semester IV Topic: Representing the Partition	29
3.	Seminar Lecture	25/05/2023	Dr. Swaty Mitra Assistant Professor, Department of English, Bidhannagar College	UG Semester II Topic: Towards the Enterprise on Two-inches of Ivory: The Early English Novel.	42
4.	Seminar Lecture	25/05/2023	Dr. Tina Barma Assistant Professor, Department of Economics, Bidhannagar College	UG Semester II and IV Use of Software for Research in Economics	16
	Syllabus Oriented Class	26/05/2023	Dr. Shrabana Mazumder, Assistant Professor, Department of Geography, Barasat Government College	UG Semester IV Topic: Environmental Pollution and Degradation	11

Principal Barasat Government College

Dr. SAMAR CHATTOPADHYAY
West Bengal Senior Education Service
PRINCIPAL, Barasat Govt. College.
Government of West Bengal.

Principal

Bidhannagar College
Principal

Bidhannagar College
Salt Lake, Kol-64



Signing of MoU with Barasat Government College



Signing of MoU with Vital waste

Waste Disposal

MoU Report of Vital waste







A RECYCLING AND WASTE MANAGEMENT COMPANY

(A BRAND OF REDIVIVUS RECYCLERS PVT.LTD.)

GSTIN: 19AAHCR7603N1ZT

54/7B, D.C. DEY ROAD, KOLKATA - 700015

Bill to Bidhannagar	College		
Address: Sector 1, Black	KEB, Salt lake, Kol-GBate	13.06	2024

PARTICULARS	QNTY.	RATE	AMOUNT
Newspapers			
Books & Magazines			
Shredded Papers			No. 14
Mixed Papers			
Low Grade Papers /Boards ,	35 KDC		
Cardboards	6 Koz		
Plas c Pets			
Plas c Others/ Rappers	7 KV		
E-Waste			
ow Grade E-Waste			
Glass Bo les	33 KM		
in	0 100		
Metal 🗸	3 Kir		
ens Cu ng			
Burnt Oil	70 1/10		
lazardous Waste	22 KVZ TOTAL 106 KVZ		
	TOTAL 106 KM		

Thank You For Using Vital Waste

R.Roy. 13/06/24

Client Signature With Stamp

K-Thata Vital Waste Representa ve Signa

Vital Waste Representa ve Signature

PH NO - 9874481121

Mail Id – <u>vitalwaste@gmail.com</u> WEB – www.vitalwaste.com

Bidhannagar College

MoU Report of Vital waste

A MoU was signed between Bidhannagar College and Vital Waste Company on 28th July 2022. They offered us to take paper waste, liquid waste and other types of wastes like metal and plastic wastes from the different departments of Bidhannagar College. They also provided containers for collecting hazardous liquid waste. Being a government College it was the duty of the college authority to provide the information to the Higher Education Department about the MoU. After sending a letter to the Higher authority, an initiative was taken from the college as well as from Vital Waste company for the collection of waste materials. Various items like wastepaper, broken bottles, cartoons, plastic wastes, and hazardous liquid were collected on 13th June 2024 by two persons reaching the College with the vehicle for waste collection. At least 10 departments both from Science and Humanities discipline as well as the College Office participated in this waste disposal process. About 106 kg was collected from these departments. This MoU ensures a cleaner environment for the College campus.



Communication Skill Development



Collaborative Certificate course in Communication skills in English for the Students of Bidhannagar College (MoU signed in 10.03.2023)







Micer-in-Charge