	SEMESTER ~ I
Course name	Research Methodology
Course code	PHDZOO 01
Number of lectures	60
Credits	
Marks	100

Course Objectives:

After completion of this course the student will be able to

SI. No.	Course Objectives:			
1;	Develop the ability to choose methods appropriate to research aims and objectives.			
2:	Understand the advantages and disadvantages of particular research method.			
3:	Develop skill of critical thinking and the skill of qualitative and quantitative data			
4:	Prepare students for organizing and conducting research in a more appropriate manner			

Course Content: Research Methodology

Unit 1: Research Formulation: Objectives and motivation of Research –Research Methodology vs methods. Types of research – Descriptive, Analytical, Applied, Fundamental, Quantitative, Qualitative, Conceptual, Empirical etc.; Approaches to Research: Preparation of Schedule, Case study approach, Comparison approach, Definition approach, Descriptive approach, Evaluative approach, Exploratory approach, Interpretive approach, Narrative approach, Persuasive approach, Policy memorandum approach. Definition and formulation of the research problem – Selection of the problem - Necessity of defining the problem - Importance of literature review in defining a problem–Literature review–Primary and secondary sources–reviews, treatise, monographs-patents–webasasource–searching the web-Critical literature review–Development of working hypothesis.

Unit- II: Data Collection and analysis: Execution of the research-Observation and Collection of data - Methods of data collection -Sampling Methods- Data Processing and Analysis strategies - Data Analysis with Statistical Packages-Hypothesis-testing-Generalization and Interpretation. [12 hours]

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PROJUNT Kumail Medda BROFESSOR

ASSOCIATE PROFESSOR

AND HEAD

Depl. of Zoology
R. K. Mission V.C. College

Rahara, Kul-700118

Unit III: Reporting and thesis writing: Structure and components of scientific reports Types of report - Technical reports and thesis -Significance - Different steps in the
preparation - Layout, structure and Language of typical reports-Illustrations and tablesBibliography, referencing and footnotes.

12 hours

Unit IV: Application of results and ethics:

Environmental impacts – Ethical issues - ethical committees: Guidelines for Bio-safety, functioning of Institutional Bio-safety committee, Institutional Animal ethics committee, and Institutional ethical committee, CPCSEA guidelines for animal experimentation, ICMR guidelines for experiments involving humans, DBT guidelines for Biosafety practices to be followed

Intellectual property rights (IPR): kinds of property, nature of IP, basic principle, major IP, moral rights &economic rights; Copy right, patent, industrial design, trade mark, geographical indication, farmers' right, IPR licensing & technology transfer; Reproduction of published material- plagiarism, citation and acknowledgement. Reproducibility of IP and accountability.

7 hours

Unit V: Presentation of Results: Poster presentation, Oral presentation, Software related to presentation, layout and structure. Oral presentation—Planning—Preparation—Practice—Makingpresentation—Useofvisualaids-Importanceofeffective.Communication. Writing an Abstract: Importance, Types: Critical Abstract; Descriptive Abstract; Informative Abstract; Highlight Abstract; Writing Style. Writing Introduction: Background Information, Research Questions, Theoretical Framework. Writing a Case Study: Identifying a Case, Structure and writing style, Limitations. Writing a Field Report: Objects to observe, Obtaining consent, Field Notes, Techniques to Record Observation. Writing an Executive Summary; Policy Memo Writing a Book Review: Descriptive; Critical. Proof Reading: Strategies to identify errors; use of computer checking, common grammatical errors. Group Projects: Goals, Planning, Preparation and Implementation.

Course Outcomes

On successful completion of the course students will be able to:

-	On succ	essiul completion of the course		20	DCO ₀
			Cognitive		PSOs
	CO.	Carrage Outcome	Level	Addressed	Addressed
	No. COI	Understand the objectives, motivation and types of	υ	POI	PSO2
		Define and formulate a research problem	R, C	PO4	PSOI
	CO2	Definic and formation			

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PRACHET KNMAR Medda Page ASSOCIATE PROFESSOR AND HEAD Depl. of Zoology P. K. Mission V.C. College R. K. Mission V.C. 118 Rahara. Kol-700118

CO3	Collect data (primary or secondary) based on the formulated problem and analyse the data.	An	PO2	PSO3
CO4	Analyse the data with hypothesis testing, generalization and interpretation.	An, C	PO3	PSO4
CO5	Discuss the application of results and write the thesis.	Ap, E	PO3	PSO4

R= remembering, U = understanding, Ap = applying, An = analysing, E = evaluating, and C = creating

Su. dan de

Principal Ramakrishna Mission Vivekanarida Centenary College Rahara, Kolkata-700 118 PSAdyot Kumas Medassor ASSOCIATE PROFESSOR AND HEAD Dept. of Zoology R. K. Mission V.C. Collega Rahara. Kol-700118

SE	MESTER – I
Name of the Course: Research Methodo	nlony
Course Code: PHDMATH01	JIOBY
Full Marks: 100	
Number of classes required: 60	Credit: 4
This course has been	
This course has been newly introduced	vide BOS meeting dated 26/02/2019

Course Objectives (PHDMATH01)

The prime objectives of the course are:

 Develop the ability to choose methods appropriate to research aims and objectives.

Understand the advantages and disadvantages of particular research method.

 Develop skill of critical thinking and the skill of qualitative and quantitative data analysis and presentation.

Prepare students for organizing and conducting research in a more appropriate manner

Course Content

Unit 1: Research Formulation: Objectives and motivation of Research –Research Methodology vs methods. Types of research – Descriptive, Analytical, Applied, Fundamental, Quantitative, Qualitative, Conceptual, Empirical etc.; Approaches to Research: Preparation of Schedule, Case study approach, Comparison approach, Definition approach, Descriptive approach, Fuluative approach, Exploratory approach, Interpretive approach, Narrative approach, Policy memorandum approach. Definition and formulation of the research problem – Selection of the problem – Necessity of defining the problem – Importance of literature review in defining a problem–Literature review—Primary and secondary sources—reviews, treatise, monographs-patents—webasasource—searching the web-Critical literature review—Development of working hypothesis.

Unit- H: Data Collection and analysis: Execution of the research-Observation and Collection of data - Methods of data collection - Sampling Methods - Data Processing and Analysis strategies - Data Analysis with Statistical Packages-Hypothesis-testing-Generalization and Interpretation.

Unit III: Reporting and thesis writing: Structure and components of scientific reports - Types of report - Technical reports and thesis -Significance - Different steps in the preparation - Layout, structure and Language of typical reports-Illustrations and tables-Bibliography, referencing and footnotes.

Unit IV: Application of results and ethics: Environmental impacts – Ethical issues - ethical committees. Intellectual property rights (IPR): kinds of property, nature of IP, basic principle, major IP, moral rights &economic rights; Copy right, patent, industrial design,

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Centenary College

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trade mark, geographical indication, farmers' right, IPR licensing & technology transfer; Reproduction of published material- plagiarism, citation and acknowledgement. Reproducibility of IP and accountability.

Unit V: Presentation of Results: Poster presentation, Oral presentation, Software related to presentation, layout and structure. Oral presentation-Planning-Preparation-Practice-Makingpresentation-Useofvisualaids-Importanceofeffective, Communication. Writing an Abstract: Importance, Types: Critical Abstract; Descriptive Abstract; Informative Abstract; Highlight Abstract; Writing Style. Writing Introduction: Background Information, Research Questions, Theoretical Framework. Writing a Case Study: Identifying a Case, Structure and writing style, Limitations. Writing a Field Report: Objects to observe, Obtaining course, Field Notes, Techniques to Record Observation. Writing an Executive Summary, Policy Memo Writing a Book Review: Descriptive; Critical. Proof Reading: Strategies to identify errors; use of computer checking, common grammatical errors. Group Projects. Goals, Planning, Preparation and Implementation.

Course Outcomes (PHDMATH01)

On successful completion of the course students will be a

CO.	Course C			
No.	Course Outcome	Cognitive		PSOs
COI	Understand the objectives	Level	Addressed	Addressed
	Understand the objectives, motivation and types of research	U	PO1	PSO1
CO ₂	Define and formulate a research problem			
CO3	Collect data (primarile a research problem	R, C	PO4	PSO2
	Collect data (primary or secondary) based on the formulated problem and analyse the data.	An	PO2	PSO3
CO4	Anglyce the J-			
	generalization and interpretation	An, C	PO3	PSO3
CO5	Discuss the application of any to the	-		
R= reme	embering, U = understanding, Ap = applying, An = analysing	Ap, E	PO3	PSO4
	- unucisianumy Ap = applying. An = analysing	E - avaluat		

R= remembering, U = understanding, Ap = applying, An = analysing, E = evaluating, and C = creating

SEM!	ESTER – I
Name of the Course: Computer Applicatio Course Code: PHDMATH02 Full Marks: 100	
Number of classes required: 60 This course has been newly introduced vid	Credit: 4

Course Objectives (PHDMATH02)

The prime objectives of the course are:

To develop competency in technical writing.

To master the fundamentals of writing LaTeX and Python scripts.

To acquire Object Oriented Skills in Python.

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Course Name: Research Method	lology
Course Code; PHDBOT01	A STATE OF THE PROPERTY OF THE STATE OF THE
FullMarks:100	Credit: 4
Number of classes: 60	

Course Objectives (PHDBOT01)

The prime objectives of the course are:

- Develop the ability to choose methods appropriate to research aims and objectives.
- Understand the advantages and disadvantages of particular research method.
- Develop skill of critical thinking and the skill of qualitative and quantitative data analysis and presentation.
- Prepare students for organizing and conducting research in a more appropriate manner.

Course Content

- (a) Introduction, Overview, and Research Misconduct, rules and regulations in India
- (b) Data Management
- (c) Mentoring, mentor-mentee responsibilities
- (d) Authorship Guidelines, Publication and Peer Review
- (e) Intellectual property, plagiarism, patents
- (f) Collaboration
- (g) Reporting and representing research, representing images.
- (h) Bias, Conflicts of Interest
- (i) Ethical use of animal subjects
- (j) Protection of Human subjects
- (k) Stem Cell Ethics
- (1) The Ethics of Plant Use, transgenic crops
- (m)Agricultural Ethics
- (n) Ecosourcing-code of practice
- (o) Radioactive, chemical and biohazard safety, waste management and disposal
- (p) Social Responsibility and Whistle blowing
- (q)Definition of problem: Necessity of defining problem, Technique involved in defining a problem.
- (r) Techniques involved in solving the problem: Different methods used to solve a problem.
- (s) Research Design: Subject of study; Place of study; Reason of such study; Type of data required; Method of data collection; Periods of study; Style of data presentation.
- (q) Developing a research plan: Research objective; Informations required for solving the problem; Each major concept should be defined in operational terms; An overall description

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Deptt. of Botany
R.K.M.V.C. College
Rahara, Kol-118

of the approach should be given and assumption if considered should be clearly mentioned in research plan; The details of techniques to be adopted.

(r) Methods of data collection: Experimental methods.

B: Statistical Methods: Numerical and graphical presentation of data; Measures of central tendency; Measures of dispersion; Testing of significance of hypothesis by student's t-test, paired t-test and Fisher's t-test; Determination of correlation coefficient between two variables; Regression analysis; Theories of probability; Analysis of variance; Post-hoc test; Statistical distributions (Normal, binomial and Poisson distributions); Basic statistical modelling.

C: Techniques in Plant Sciences: Algal cell culture - Algal culture, Fungal culture - Fungal culture media, Protoplast and Spore culture, Plant cell Culture- Cellular totipotency, cytodifferentiation, Somatic embryogenesis, Preservation techniques- Histochemical and cytochemical preservation, Herbarium, Molecular biological Techniques- Gene amplification and PCR, Molecular Probes, DNA fingerprinting

D: Analytical Methods: Microscopic Techniques: Light microscope: Resolving power and magnification, Phase Microscope, Fluorescence Microscope, Confocal Microscope, Micrometry. Electron Microscope: Transmission and scanning techniques for E.M. Spectrophotometry: Electromagnetic spectrum, construction of calorimeter and spectrophotometer, Applications. Analytical techniques: GC-MS, HPLC, FT-IR, Maldi, Raman, Etc.

Course Outcomes

On successful completion of the course students will be able to:

CO. No.	Course Outcome	Cognitive Level		PSOs Addressed
CO1	Understand the objectives, motivation and types of research	U	PO1	PSO1
CO2	Define and formulate a research problem	R, C	PO4	PSO2
CO3	Collect data (primary or secondary) based on the formulated problem and analyse the data.	An	PO2	PSO3
CO4	Analyse the data with hypothesis testing, generalization and interpretation.	An, C	PO3	PSO3
CO5	Discuss the application of results and write the thesis.	Ap, E	PO3	PSO4

R= remembering, U = understanding, Ap = applying, An = analysing, E = evaluating, and C = creating

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Head Deptt. of Botany R.K.M.V.C. College Rahara, Kol-118 No.: IAEC/IntMeet/1

R.K.M.V.C. COLLEGE, RAHARA, KOLKATA - 700 118.

Proceedings of the meeting of the Institutional Animal Ethical Committee (IAEC) held at the Conference Room of the College on Saturday, the 13th February, 2021, at 8.00 p.m.

Swami Kamalasthananda took the Chair.

1. Dr. Koutilya Bhattacharjee, Member Secretary of the committee placed the detailed report regarding the setting up the Animal House in the college: The College has established a room facility of having a carpet area of 20 ft x 24 ft having two animal rooms, one wash room, one office room, one changing room, one store room & one quarantine room (Detail measurement attached herewith). The ventilation, air conditioning and electrical infrastructures have been made following the guidelines of CPCSEA.

Resolved that the report of the Member Secretary of the committee be adopted for further necessary action.

- 2. Dr. Apratim Maity, the veterinarian scientist of the committee mentioned and explained the necessity of the quarantine room in the Animal House setup. Resolved that a quarantine room will be constructed in the Animal House facility of the College, to separate the infected animals in case of emergency.
- 3. Dr. Koutilya Bhattacharjee, Member Secretary of the committee mentioned the members of the committee that a full body IAEC required to be formed with other three external members of the committee which will be nominated by CPCSEA. All members agreed in this matter of the formation of the committee so that the standard of the Animal House can be properly maintained.

Resolved that the formation of the Institutional Animal Ethical Committee (IAEC) as per the guidelines of CPCSEA be adopted and Member Secretary be authorised to move to the appropriate authority for sanction/nomination/execution of the committee.

The meeting ended with vote of thanks to the Chairman.

Koulilya Bhallachayee (Dr. Koufilya Bhattacharjen)tary

Member Secretary Ethics Committee
Institutional Animal Ethics Committee Ramakrishna Mission Vivekananda Centcnary College Rahara, Kolkata -700118

(Swami Kamalasthananda) Chairman

Sn. Kom

Chairperson Institutional Animal Ethics Committee Ramakrishna Mission Vivekananda Centenary College Rahara, Kolkata - 700118

Date: 13.02.2021

CONFIRMED





Members present in the meeting of the IAEC on 13.02.2021 at 8.00 p.m.

SI no.	Name	Signature	
1	Swami Kamalasthananda Chair Person	St. Kande.	108801
2	Dr. Koutilya Bhattacharjee Member Secretary	Koulilya Bhatlachayer	late profesiony tonen
3	Dr. Swapan Kr. Ghosh Biological Scientist	Swapan Kumare Blog !.	Day Wise Collegal
4	Dr. Bibhabasu Hazra, Biological Scientist	Bribaban Hara Raman	ahara, he
5	Dr. Apratim Maity, Veterenary Scientist	Apralia excit	



Date: 13.07.2022

Minutes of the 1st meeting of Institutional Biosafety Committee (IBSC) of Ramakrishna Mission Vivekananda Centenary College, West Bengal

Members Present:

- 1. Swami Kamalasthananda (Chairman)
- 2. Dr. Koutilya Bhattacharjee (Member Secretary)
- 3. Dr. Sanjoy Guha (Biosafety Officer)
- 4. Prof. Tapan Kumar Dutta (DBT Nominee)
- 5. Prof. Jayanta Tarafdar (External Member)
- 6. Prof. Kaushik Biswas (External Member)
- 7. Dr. Swapan Kumar Ghosh (Internal Member)
- 8. Dr.Ajoy Mallik (Internal Member)
- 9. Dr. Tanmay Paul (Internal Member)

At the very onset, the convenor, Dr. Koutilya Bhattacharjee introduced the committee members. The Chairman, Swami Kamalasthananda, chaired the meeting.

Agenda I: Inspection of the BSL II facility of the College

All members visited the BSL II facilities, as well as the general laboratories of the College and felt that arrangements were up to the mark to carry out experiments involving organisms upto Risk Group 2 category (RG2). Members further advised in regular evaluation of the Biosafety Cabinets, and to ensure proper and regular maintenance, and keep appropriate records of the same.

Dr. Sanjoy Guha, the biosafety officer detailed the methodology to be followed for proper disposal of the biomedical research wastes, and advised that proper disposal of Bio-Medical waste management procedures must be followed at all time, preferentially by outsourcing to a professionally certified Bio-Medical waste management company.

Agenda II: Numbering and recording of the proposals submitted

The committee instructed that henceforth, all PIs requesting IBSC clearance for proposals that need to be submitted to a funding agency, or for proposals that have already been sanctioned and need IBSC clearance, must be submitted to IBSC

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Ramakrishna Mission Vivekananda Centenary College, West Bengal Institutional Biosafety Committee UIC: RAMA170220222123

using the IBSC form and checklist alongwith necessary project details to the member secretary, IBSC. A general circular to all concerned PIs should immediately be circulated by email.

It is also decided in the committee, that, henceforth, all proposals submitted to the IBSC will be assigned a number using the format, "RKMVCC/Biosafety/2022/SI. No....", and a copy of the same to be handed over to the Chairman Maharaj's cell for filing.

Agenda III : Format for Provisional IBSC certificate and Final IBSC certificate

The following general templates are to be followed henceforth, for issuance of both the Provisional IBSC certificates and the Final IBSC certificates, as shown in the following pages -

Provisional IBSC certificate Template

Ref. No.	Date :
INCI. INU.	

TO WHOM IT MAY CONCERN

This is to certify that the Institutional Biosafety Committee (IBSC) of Ramakrishna Mission Vivekananda Centenary College (RKMVCC) has recommended the issue of a provisional certificate for the proposed project entitled "Title of the Project" submitted by PI - "PI's name", Department's name & Co-PI (if any) for submission to "Funding agency name".

However, the PI should follow the following instructions before initiation of work.

Instructions:

- 1. PI should inform in writing to the IBSC on the final sanction of the project.
- 2. The PI should inform the RCGM, if the project involves working with RG3 pathogens, before initiation of the work upon final sanction of the project by the funding agency.
- The IBSC holds the right to revoke the IBSC clearance in case of any deviation of proposed plan of work submitted to IBSC previously. However, permission from IBSC has to be taken in case of any change before the start of the work.

Signature of Member Secretary Institutional Biosafety Committee (IBSC) RKMVC College (RKMVCC)

Signature of Chairman Institutional Biosafety Committee (IBSC)

RKMVC College (RKMVCC)

Ramakrishna Mission Vivekananda Centenary College, West Bengal Institutional Biosafety Committee UIC: RAMA170220222123

Final IBSC certificate Template

Ref. No	Date:
---------	-------

TO WHOM IT MAY CONCERN

SUB: "TITLE OF THE PROJECT"

This is to certify that the planned studies and protocols pertaining to the abovementioned research proposal submitted by PI "Name of PI", & Co-PI (if any), has been approved by the Institutional Biosafety Committee (IBSC) during its meeting held on "Date of Meeting".

RKMVC College

Signature of Biosafety Officer, IBSC. RKMVC College

certificate.

Signature of Member Secretary, IBSC

Rahara, West Bengal

Chairman, IBSC RKMVC College Rahara, West Bengal

Signature of

Rahara, West Bengal

Agenda IV: Approval of projects submitted by Pls for issuance of IBSC

The projects were discussed in detail and the following recommendations were made by the IBSC committee for each submitted projects -

Project 1 - Project to be submitted to DBT titled "An approach towards the development of biomarkers linked to WSSV propagation in Penaeus monodon through global transcriptome analysis using next generation sequencing" by **Dr.Ajoy Mallik** for provisional approval by IBSC:

The committee has gone through the proposal submitted by Dr.Ajoy Mallik, which will be submitted to DBT, Govt. of India for funding. The committee decided that since the project deals with the "white Spot Syndrome Virus" which falls under viral RG2 (according to the Regulations & Guidelines on Biosafety of Recombinant DNA Research & Biocontainment of RCGM, DBT), and hence will need to be contained in an animal BSL2 facility. Since, the PI declared that such BSL2 containment facility is available in Ramakrishna Mission Vivekananda Centenary College, and will be strictly followed by the PI, the committee recommends issuance of provisional IBSC certificate to the PI for the above-mentioned project. However, the committee also

Ramakrishna Mission Vivekananda Centenary College, West Bengal Institutional Biosafety Committee

UIC: RAMA170220222123

recommends the PI to intimate the IBSC and get the final IBSC clearance upon sanction of the project

Project 2 – Project sanctioned by DST-SERB titled "Detection of emerging viral pathogens and development of molecular diagnostic tools for shrimp (Penaeus monodon) aquaculture "by Dr.Ajoy Mallik for final approval by IBSC

The committee has gone through the proposal submitted by Dr Ajoy Mallik, which has been approved for funding by DST-SERB, pending submission of final clearance by IBSC. The committee decided that since the project deals with the White Spot Syndrome Virus (WSSV), which falls under viral RG2 (according to the Regulations & Guidelines on Biosafety of Recombinant DNA Research & Biocontainment of RCGM DBT), and hence will need to be contained in an animal BSL2 facility. Since, the PI declared that such BSL2 containment facility is available in Ramakrishna Mission Vivekananda Centenary College, and will be strictly followed by the PI, the committee recommends issuance of final IBSC certificate to the PI for the above-mentioned project.

Project 3 – Project submitted to DST-SERB titled "Purification, Characterization and Efficacy Evaluation of the Ethno-therapeutic Anti-Microbial Component(s) from Duttaphrynushimalayanus skin and bone in a Mice model" by Dr. Koutilya Bhattacharjee for provisional approval by IBSC:

The committee has gone through the proposal submitted by Dr. Koutilya Bhattacharjee, which has been submitted for funding by DST-SERB, pending submission of clearance by IBSC. The committee decided that since the project deals with the Alternaria spp, Candida albicans, Aspergillus flavus, Escherichia coli, Staphylococcus aureus &Pseudomonus aeruginosa, which fall under RG2 (according to the Regulations & Guidelines on Biosafety of Recombinant DNA Research & Biocontainment of RCGM, DBT), and hence will need to be contained in an animal BSL2 facility. Since, the PI declared that such BSL2 containment facility is available in Ramakrishna Mission Vivekananda Centenary College, and will be strictly followed by the PI, the committee recommends issuance of provisional IBSC certificate to the PI for the above-mentioned project. However, the committee also recommends the PI to intimate the IBSC and get the final IBSC clearance upon safection of the project.

Agenda V : Any other matter

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Page 4 of 6 Tar fles

Agenda V :

Si \$5.00

Ramakrishna Mission Vivekananda Centenary College, West Bengal Institutional Biosafety Committee UIC: RAMA170220222123

Prof. Javanta Tarafdar further suggested that, in cases of proposals containing gene cloning, in addition to the database accession number, detailed sequence of the genes to be cloned and any other genes that may have any kind of new impact alongwith vector map needs to incorporated in the proposal as annexure, while applying for IBSC clearance

The committee additionally resolved the following -

- 1. Also resolved that final clearance carries the 5.b and 5.c. clauses as prerequisites.
- 2. The provisional and final clearance certificates proforma will be as laid in annexure I and II respectively
- 3.Resolved further, ink stamps will be prepared as per requirement of IBSC The meeting ended with vote of thanks to the chair.

SIGNATURE OF THE MEMBERS PRESENT -

SWAMI KAMALASTHANANDA

CHAIRMAN

Principal Ramakrishna Mission Vivekananda Centenary College Rahara, Kolkata - 700 118

Sugar 18/07/22

DR. SANJOY GUHA BIOSAFETY OFFICER

Superintendent Sree Balaram Seva Mandar S. G. Hospital, Khardahaa North 24 Parganas

Kauslik Birms 19/07/22 PROF. KAUSHIK BISWAS OUTSIDE EXPERT

Kaushik Biswas, Ph.D Professor Div. of Molecular Medicine Bose Institute EN 80, Salt Lake, Sector V Kolkata-700091, INDIA

Sisabore Kuman & DR. SWAPAN KUMAR GHOSH INTERNAL EXPERT

DR. TANMØY PAUL INTERNAL EXPERT

Dr. TANMOY PAUL, Ph.D. Assistant Professor Department of Zoology Ramakrishna Mission Vivekananda Centenary College Rahara, Kolkata - 700 118

PROF. TAPAN KUMAR DUTTA

DBT NOMINE Japan K. Dutta Department of Microbiology

Department of Microbiology BOSE INSTITUTE EN-80, Sector ∨ Salt Lake Kolkata - 700091, India

Dr. Koutilya Bhattacharjee Assistant Professor

DR. KOUTILYA BHATTACHAR EL TAN COMO MEMBER SECREJARY700 118

ROF. JAYANTA TARAFDAR

OUTSIDE EXPERTr. Jayanta Tarafdar Professor

Department of Plant Pathology Bidhan Chandra Krishi Viswavidy ulaya Mohanpur-741252, Nadia, West Bengal

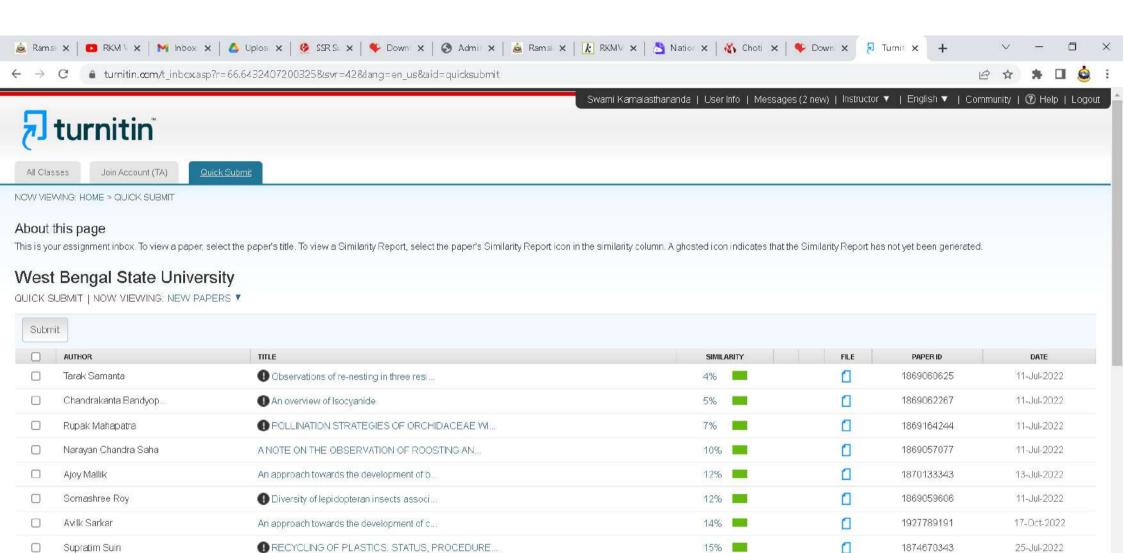
DR. AJOY MALLIK INTERNAL EXPERT

Dr. Ajoy Mallik Assistant Professor Department of Zoology Ramkrishna Mission Vivekananda Centenary College Rahara, Kolkata - 700 118

Page 5 of 6

Signature of the IBSC members present on 13.07.2022 in the 1st meeting of the Institutional Biosafety Committee of Ramakrishna Mission Vivekananda Centenary College, West Bengal –

SI No	Name	Designation	Signature
1	SWAMI KAMALASTHANANDA	CHAIRPERSON	Su. Her 12 .
2	PROF. TAPAN KUMAR DUTTA	DBT NOMINEE	Tapar 6. Dutia
3	DR. SANJOY GUHA	BIOSAFETY OFFICER	Sq 7 22
4	DR. KOUTILYA BHATTACHARJEE	MEMBER SECRETARY	Bhattachagee 13.07.2022
5	PROF. JAYANTA TARAFDAR	OUTSIDE EXPERT	Jaranta Jaratha 13/7/2022
6	PROF. KAUSHIK BISWAS	OUTSIDE EXPERT	Kanslik Bitmes 13f07/2022
7	DR, SWAPAN KUMAR GHOSH	INTERNAL EXPERT	Swarporoz Kumere 88alh 13.07.2027
8	DR, AJOY MALLIK	INTERNAL EXPERT	Ajoy Mallik
9	DR. TANMOY PAUL	INTERNAL EXPERT	Tampail. 2012





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Kaustav Chakraborty

Shuvam Sendunta



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Digital Eye Strain: An Emerging Lifestyl...

A Plant Pollinator Co-ordination in Omith.



3.4.3.xlsx













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Phone- 033- 2568 2049

"Swami Vivekananda Center for Multidisciplin	nary Research in Basic Science and
Social Science	25"
Ph.D. Course- Work Con	pletion Report
Period: From April 2022 to Septemb	2ex, 2022
 Name of the scholar: Basuder. Mw. Topic of Course Work: a. Research Methodology 	
	in Mathematical Research
c. Literature Review	
d.Indepth Study (Advance 6. Applied.)	of the Research Area
Work satisfactory and has given evidence of substantial	work was duly held in the department of necesfully completed to the whole Course research work.
We recommend that to be allowed to Bax	Ruden MURMIR.
We recommend that to be allowed to	34400 /
(name of the candidate) for further research work.	
Name	Signature
Dr. P.L. Das, Chairman, Nominee of the Principal and Chairman of Academic Council	Jannele / Das 21/4/22
Prof C. Sengupta, External Subject Expert, Nominated by the BOS	Rondon Sengrata. 21-4.2012
Dr. H.S. Dey, Ph. D. Supervisor, Convenor	HaniSankan Ley
Date: 21.04.2022 Sign	Convenor Research Advisory Committee Supervisor Research Advisory Committee Research Research Research REMVC College, Rahara

Date:

Chairman RAC Signature of Research Advisory Committe SVCMRBSSS RKMVC College, Rahara



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Phone- 033- 2568 2049

"Swami Vivekananda Center for Multidisciplinary Research in Basic Science and

Social Science	s"					
Ph.D. Course- Work Completion Report						
Period: From1/10/2021 to31/3/	2022	·				
1. Name of the scholar:						
b. Computer application in Mathematical Research						
c. Literature Review						
Indepth Study	of	the	Research	Area		
We recommend that to be allowed to			SANT	ARA		
Name		Sig	gnature			
Dr. P. Medda, Chairman, Nominee of the Principal and Chairman of Academic Council	Pradi	jot Ku	Mar Med 21/4 L. 21/4/	lda 1/22		
Prof. P.D. Ghosh; External Subject Expert, Nominated by the BOS	Partho	ruleb Sho	L. 21/4/.	22		
Dr. A. Kundu, Ph. D. Supervisor, Convenor	Luk	ban 1	Kundu 2	1/4/22		
,	, 0	10	0/	1		

Date:

21/4/22

Auidoan hunde Signature of the Supervisor

4 22, Convenor Research Advisory Committee

SVCMRBSSS RKMVC College, Rahara

Date:

Signature of Chairman,

Chairman

Research Advisory Committe **SVCMRBSSS**

RKMVC College, Rahara



P.O. RAHARA, KOLKATA-700118 WEST BENGAL, INDIA

College with potential for Excellence (CPE) Accredited by NAAC with Grade A

Phone- 033- 2568 2049

"Swami Vivekananda Center for Multidisciplinary Research in Basic Science and Social Sciences Ph.D. Course- Work Completion Report Period: From April 2002 to September, 2022 1. Name of the scholar: Basuder Musmu. 2. Topic of Course Work: a. Research Methodology: b. Computer application in Mathematical Research c. Literature Review Botany, in our view, the scholar concerned has been succesfully a maleted to the whole Course Work satisfactory and has given evidence of substantial research Basuder MURMU We recommend that to be allowed to.... (name of the candidate) for further research work. Signature Name Dr. P.L. Das, Chairman, Nominee of the Principal and Chairman of Academic Council Prof C. Sengupta, External Subject Expert, Nominated by the BOS Dr. H.S. Dey, Ph. D. Supervisor, Convenor

Date: 21.04.2022

Signature of

RKMVC College, Raham Chairman Research Advisory Committe SVCMRBSSS RKMVC College, Rahara

Convenor

Research Advisory Committee SVCMRBSSS

Date:



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Phone- 033- 2568 2049

"Swami Vivekananda Center for Multidisciplinary Research in Basic Science and

Social Sciences
Ph.D. Course- Work Completion Report
Period: From April, 2022 to September, 2022
1. Name of the scholar: Suproteem Mukherfie
2. Topic of Course Work: a. Research Methodology:
b. Computer application in Mathematical Research
c. Literature Review
d.Indepth Study of the Research Area (Plant Bristechnology;
We do hereby certify that Six- Monthly Ph.D Course Work was duly held in the department of Mathematics, in our view, the scholar concerned has been succesfully completed to the whole

Course Work satisfactory and has given evidence of substantial research work.

We recommend that to be allowed to. SUPROTEEM MUKHERTEE (name of the candidate) for further research work.

Name	Signature
Dr. P. Medda, Chairman, Nominee of the Principal and Chairman of Academic Council	21/4/)
Prof. P.D. Ghosh; Outside Subject Expert, Nominated by the BOS	Parthocket Short 21/4/22
Dr. B. Ghosh, Ph. D. Supervisor, Convenor	BisveritGLa 21-4-2012

Date: 21-4-2022

Biswrit Gha

Convenor

Signature of the Supervisor Research Advisory Committee

SVCMRBSSS RKMVC College, Raliara

Date:

Chairman

Research Advisory Committe **SVCMRBSSS**

RKMVC College, Rahara



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"Swami Vivekananda Center for Multidiscipline	• **
Social Sciences	"
Ph.D. Course- Work Comp	letion Report
Period: From April, 2002 to September	1, 2022
 Name of the scholar: DIPTESH BIS Topic of Course Work: a. Research Methodology 	
-	
• • • • • • • • • • • • • • • • • • • •	n Mathematical Research
c. Literature Review	
d.Indepth Study (Plimt Brotech Noto)	of the Research Area)
We do hereby certify that Six- Monthly Ph.D Course W Mathematics, in our view, the scholar concerned has b Course Work satisfactory and has given evidence of subs	ork was duly held in the department of BOTANY een succsfully completed to the whole tantial research work.
We recommend that to be allowed to	LI COLL BIOMAIO
(name of the candidate) for further research work.	
Name	Signature
Dr. P. Medda, Chairman, Nominee of the Principal and Chairman of Academic Council	Padyst Kumar Medda 21/4/22 Parthadeb Ghosh 21/4/22
Prof. P.D. Ghosh; Outside Subject Expert, Nominated by the BOS	
Dr. B. Ghosh, Ph. D. Supervisor, Convenor	Bisumit Ghase 21-4-2022
B	ishant Ghor. Convenor
Date: 21 - 4 - 2022, Signa	ture of the Supervisor Research Advisory Committee
	C Le RKMVC and age, Rahara

Date:

Signature of Chairman, RAC Chairman

Research Advisory Committe SVCMRBSSS

RKMVC College, Rahara



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"Swami Vivekananda Center for Multidisciplinary Research in Basic Science and Social Sciences"

Progress Report Six- Monthly Ph.D. Seminar, Department of Botany

No. of the report (Tick appropriater box):

	1	2	3	4	5	6	7	8	9	10
	1. 2. We do Botany given e	Name of the Topic of Re Oction to the Name of Re Oction to the Name of States of State	e scholar: esearch: 29 6 06 No ify that Six w, the schol substantial that to be	DANKALS udies on le state - Monthly lar concerne research wo allowed	hna). Cyanol Cyanol Ph.D Cou ed has bee ork.	n abic to der	カシマクス さん はってみらきれ as duly held cend his wor	y boom by for any find the department of the dep	y and nas	103 1 00- 100- 100- 100- 100- 100- 100- 100
	(name c	of the danak	Name				Sig	nature		
١		1 D 0	11 ·	Innings of	the Drine	inal W	_	4.0		

N I V	
Dr. P.L. Das, Chairman, Nominee of the Principal and Chairman of Academic Council	Janualal Das - 21/4/22
Prof C. Sengupta, External Subject Expert, Nominated by the BOS	Randon Sen graper. 21, 4,2022
Dr. H.S. Dey, Ph. D. Supervisor, Convenor	Hari Sankan Stry 21.0422

Date: 21.04,2022

Signature of Chairman,

Harrisankon Der Signature of the Supervisor Research Advisory Committee **SVCMRBSSS** RKMVG College, Rahara

Convenor

Chairman Research Advisory Committe SVCMRBSSS

RKMVC College, Rahara

Date:



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Phone- 033- 2568 2049

"Swami Vivekananda Center for Multidisciplin	ary Researc	h in Basic Scie	nce and
Social Science	s ''		
Ph.D. Course- Work Com	pletion Rep	<u>ort</u>	
Period: From\/.10/.20.21 to	12022		
1. Name of the scholar: PARBET	LASK	CAR.	
2. Topic of Course Work: a. Research Methodolog			
b. Computer application	in Mathematic	cal Research	
c. Literature Review			
ud Andepth Study	of the	e Research	Area
()
We do hereby certify that Six- Monthly Ph.D Course V	Work was duly	held in the depa	rtment of
Botany, in our view, the scholar concerned has been so			e Course
Work satisfactory and has given evidence of substantial	research work.		
We recommend that to be allowed to	Parba	ej Kaskar	C
Name		Signature	
Dr. P. Medda, Chairman, Nominee of the Principal and Chairman of Academic Council	Pradyot	Kumaz Med 21/4/	lda 11_
Prof. P.D. Ghosh; External Subject Expert, Nominated by the BOS		6 Shad 21/4/2	
Dr. A. Kundu, Ph. D. Supervisor, Convenor	Audha	n Kundu	21/4/2

Date: 21/4/22.

Auchan Kundu 21/4/22
Signature of the Supervisor
Research Advisory Committee

SVCMRBSSS RKMVC College, Rahara

Date:

Signature of Chairman, RAC

Chairman Research Advisory Committe **SVCMRBSSS** RKMVC College, Rahara



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Phone- 033- 2568 2049

"Swami Vivekananda Center for Multidisciplinary Research in Basic Science and Social Sciences"

Progress Report Six- Monthly Ph.D. Seminar, Department of Botany

 No of the report (Tick appropriater box):

 1
 2
 3
 4
 5
 6
 7
 8
 9
 10

Period: From April, 2022 to September, 2022

1. Name of the scholar: KOUSHIK PANDEX

2. Topic of Research: Study of my cochemistry. of Astracus Sp. and Pleurotus S

We do hereby certify that Six- Monthly Ph.D Course Work was duly held in the department of Botany, in our view, the scholar concerned has been able to defend his work satisfactory and has given evidence of substantial research work.

We recommend that to be allowed to Koushin Pan day (name of the candidate) for further research work.

(Harrie of the candidate) for further research work.	
Name	Signature
Dr. P. L. Das, Chairman, Nominee of the Principal and Chairman of Academic Council	Januar Doy,
Prof. Rabindranath Bhattacharayan Retired Proffessor, Presidency University., External Subject Expert, Nominated by the BOS	Rabindrutt Oortholin
Dr. S. Ghosh, Ph. D. Supervisor, Convenor	Swafarz Kumar Ghart

Date: 21/04/22

Swafan Kumai glass Signature of the Supervisor Research

Convenor

e: Signature of Chairman, R

Research Advisory Committee SVCMRBSSS RKMVC College, Rahara

Chairman Research Advisory Committe SVCMRBSSS

RKMVC College, Rahara

Date:

112



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Phone- 033- 2568 2049

"Swami Vivekananda Center for Multidisciplinary Research in Basic Science and Social Sciences"

Progress Report Six- Monthly Ph.D. Seminar, Department of Mathematics

No. of the report (Tick appropriater box):

1 2 3 4 5 6 7 8 9 10

Period: From April, 2022 to September, 2022

- 1. Name of the scholar: BHASKAR MANDAL
- 2. Topic of Research: HOMOLOGY OF SYMMETRIC PRODUCTS OF CW-

We do hereby certify that Six- Monthly Ph.D Course Work was duly held in the department of Mathematics, in our view, the scholar concerned has been able to defend his work satisfactory and has given evidence of substantial research work.

We recommend that to be allowed to Bhaskar Mandal (name of the candidate) for further research work.

Name	Signature		
Dr. C.K. Bandyapadhyay, Chairman, Nominee of the Principal and Chairman of Academic Council	Chambraliali Bulypalyn 22/4/22		
Prof. R.N. Mukherjee External Subject Expert, Nominated by the BOS	P.N. Murchejn. 22/4/22		
Dr. P.K.Rana, Ph. D. Supervisor, Convenor	Pravanjan Kumar Rana		

Date: - 22-04-22

Date:

Pravanjan Kumar Rana Signature of the Supervisor Con

Signature Enjane Super visor

Convenor
Research Advisory Committ
SVCMRBSSS
RKMVC College, Rahara

Signature of Chairman, RAC

Chairman
Research Advisory Committe
SVCMRBSSS
RKMVC College, Rahara



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"Swami Vivekananda Center for Multidisciplinary Research in Basic Science and Social Sciences"

Progress Report Six- Monthly Ph.D. Seminar, Department of Botany

No. of the report (Tick appropriater box):

1	2	3	4	5	6	7	8	9	
Period: From April 2022 to September, 2022 1. Name of the scholar: Achanil Sauloa 2. Topic of Research Biotechnological approaches to modelate the plumbage of plumbago species. We do hereby certify that Six- Monthly Ph.D Course Work was duly held in the department of Botany, in our view, the scholar concerned has been able to defend his work satisfactory and has given evidence of substantial research work. We recommend that to be allowed to Manual Sauloa (name of the candidate) for further research work.								·'n	
		Name				Sig	nature		
	Medda, Chairman of A			the Princ	ipal Psac	byot Ku	mas Me	dda 4/22_	
Prof. P. by the E	D. Ghosh; BOS	Outside Su	bject Exper	t, Nomin	ated Parl	Lacleb Glos	21/4/22	-	
Dr. B. C	Ghosh, Ph. I). Superviso	or, Conven	or	Bish	int Ghor	21-4-202	-2-	

Date: 21-4-2022

Signature of the Supervisor

Convenor Research Advisory Committee

10

SVCMRBSSS RKMVC College, Rahara

Date: Signature of Chairman, RAC

Chairman, RAC

Research Advisory Committe SVCMRBSSS

RKMVC College, Rahara



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"Swami Vivekananda Center for Multidisciplinary Research in Basic Science and Social Sciences"

Progress Report Six- Monthly Ph.D. Seminar, Department of Mathematics

No. of the report (Tick appropriater box):										
1	2	3	4	5	6	7	8	9	10	
		L,			1					

Period: From April 2022 to September, 2022

1. Name of the scholar: SUDIP SAHA.

2. Topic of Research: VALUE DISTRIBUTION THEORY

We do hereby certify that Six- Monthly Ph.D Course Work was duly held in the department of Mathematics, in our view, the scholar concerned has been able to defend his work satisfactory and has given evidence of substantial research work.

We recommend that to be allowed to Sudip Saha (name of the candidate) for further research work.

Name	Signature			
Dr. C.K. Bandyapadhyay, Chairman. Nominee of the Principal and Chairman of Academic Council	Chandraleale Budspackyn 22/4/22			
Prof. R.N. Mukherjee External Subject Expert, Nominated by the BOS	P.N. Neulcheyn . 22/9/22			
Dr. B. Chakraborty, Ph. D. Supervisor, Convenor	Bixash Chakpabonty			

Date: 22/04/2022

Date:

Signature of the Supervisor

Signature of Chairman, RAC

Chairman Research Advisory Committe **SVCMRBSSS** RKMVC College, Rahara

Convenor

Research Advisory Comm **SVCMRBSSS** RKMVC College, Raha



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"Swami Vivekananda Center for Multidisciplinary Research in Basic Science and Social Sciences'

Progress Report Six- Monthly Ph.D. Seminar, Department of Botany

No. of the report (Tick appropriater box):

K.								
1	2	1	_	-	7	Q	0	10
	2 3	1 4) 3	0	/	0	7	10
1	1							1

Period: From April, 2022 to September, 2022

1. Name of the scholar: Avijit Chakrabox Hy

2. Topic of Research: Study of the Chemical not it fond and audimicrobing Properties of naturally occurring economically important species of 2 ingit We do hereby certify that Six- Monthly Ph.D Course Work was duly held in the department of beraceal Botany, in our view, the scholar concerned has been able to defend his work satisfactory and has in-visco given evidence of substantial research work. conservati

We recommend that to be allowed to... Avilit Chak rabasty. (name of the candidate) for further research work.

Name	Signature
Dr. P. Medda, Chairman, Nominee of the Principal and Chairman of Academic Council	Bradyot Kumar Medda 21/4/22
Prof. P.D. Ghosh; Outside Subject Expert, Nominated by the BOS	Parthadib Ghost 21/4/22
Dr. B. Ghosh, Ph. D. Supervisor, Convenor	Biswait Ghor 21-4-2022

Date: 21-4-2012

Date:

Biswait Ghec 21-4-2022 Signature of the Supervisor Research Advisory Commit

Convenor

SVCMRBSSS

RKMVC College, Rahara

Signature of Chairman, RAC

Chairman

Research Advisory Committe **SVCMRBSSS**

RKMVC College, Rahara-



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Phone- 033- 2568 2049

"Swami Vivekananda Center for Multidisciplinary Research in Basic Science and

			Sc	ocial Sci	ences		075 (1	4:00	
Pro	gress Rep	ort Six- N	Monthly I	Ph.D. Sc	eminar, De	partment	t of Mather	matics	
Progress Report Six- Monthly Ph.D. Seminar, Department of Mathematics No. of the report (Tick appropriater box):									
T	2	3	4	5	6	7	8	9	10
Period: From April, 2012 to Septembers 2011 1. Name of the scholar: Sarmad Hossain 2. Topic of Research: A Study of Lovering Apaces, Galois group of the Covering Apaces and their Applications. We do hereby certify that Six-Monthly Ph.D Course Work was duly held in the department of Mathematics, in our view, the scholar concerned has been able to defend his work satisfactory and has given evidence of substantial research work. We recommend that to be allowed to Sarmad Hossain (name of the candidate) for further research work.									
(name)	or the canal	Name				Sig	gnature		
Dr. C	Dr. C.K. Bandyapadhyay, Chairman, Nominee of the Principal and Chairman of Academic Council								
Prof. R.N. Mukherjee External Subject Expert, R.N. Leul Ruge 22/4/21								_	
Dr. P.K	Dr. P.K.Rana, Ph. D. Supervisor, Convenor Provanjam Kuman Rance								
Date: 22-04-22 Provanjan Kuman Ramanor Signature of the Supervisor Research Advisory Committee SVCMRBSSS RKMVC College, Rahara Signature of Chairman, RAC									
						Cha search Advi	irman isory Committ		

SVCMRBSSS RKMVC College, Rahara



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Phone- 033- 2568 2049

"Swami Vivekananda Center for Multidisciplinary Research in Basic Science and

Social Sciences" Ph.D. Course- Work Completion Report Period: From Apx 1, 2022 to September, 2022 1. Name of the scholar: Partha Gauguly 2. Topic of Course Work: a. Research Methodology b. Computer application in Mathematical Research c. Literature Review Research Area d.Indepth Study (...... We do hereby certify that Six- Monthly Ph.D Course Work was duly held in the department of Betalfy, in our view, the scholar concerned has been succefully completed to the whole Course Work satisfactory and has given evidence of substantial research work. We recommend that to be allowed to..... (name of the candidate) for further research work. Signature Name Dr. P.L. Das, Chairman, Nominee of the Principal and Chairman of Academic Council Prof S. C. Dasgupta, WBSES, External Subject Expert, Nominated by the BOS Bhattacharjee, Ph. Supervisor, K. Dr. Convenor -Kentilya Bhallachayin

Date: 21. 04, 2022

Signature of the Supervisor Research Advisory Commit

SVCMRBSSS

RKMVC College, Rahara

Date:

Signature of Chairman, R.

Chairman Research Advisory Committe

SVCMRBSSS RKMVC College, Rahara