



No. ICEC/17/1

Date: 19/04/2017

Circular

It is hereby informed that Honourable Vice Chancellor has reconstituted the Institutional Clinical Ethical Committee (ICEC).

- | | |
|--|--------------------------|
| 1. Principal, Burdwan Medical College | - Chairman |
| 2. Prof. Gautam Chandra, BU | - Member |
| 3. Dr. Naba Kumar Mandal, BU | -Member |
| 4. Dr. Paramita Mandal, BU | -Member |
| 5. Prof. Kostav Nayek, Burdwan Medical College | -Member |
| 6. Dr. Prasanta Chowdhury, Consultant, Institute of Child Health | - Member |
| 7. Dr. Sashi Nath Mandal, Assistant Professor of Law, WBES,
Presently DDPI, Govt. Of West Bengal | -Member |
| 8. Mr. Gopi Ranjan Basu, Working President, Durgapur Society
for prevention of Thalassemia and AIDS | - Member |
| 9. Dr. Santosh Pal, BU | - Member |
| 10. Mrs. Sankari Gosh, Commissioner, BM | -Member |
| 11. Dr. Anupam Basu, BU | - Joint Member Secretary |
| 12. Dr. Gispatri Chakraborty, BU | - Joint Member Secretary |


Registrar

Date:

No. ICEC/17/1

Copy Forwarded for information and necessary action to :

1. Dean, F.C For PG studies in Science / Arts, and Commerce, BU
2. All Head of the Teaching Departments, BU
3. Joint Registrar, BU (Research section)
4. Finance officer, BU
5. Secretary, PG studies in Science / Arts, and Commerce, BU
6. Secretary, PG studies in Arts, and Commerce, BU
7. Principal, Burdwan Medical College
8. Prof. Gautam Chandra, BU
9. Dr. Naba Kumar Mandal, BU
10. Dr. Paramita Mandal, BU
11. Prof. Kostav Nayek, Burdwan Medical College
12. Dr. Prasanta Chowdhury, Consultant, Institute of Child Health
13. Dr. Sashi Nath Mandal, DDPI, Govt. Of West Bengal
14. Mr. Gopi Ranjan Basu, Working President, Durgapur Society for prevention of Thalassemia and AIDS
15. Dr. Santosh Pal, BU
16. Mrs. Sankari Gosh, Commissioner, BM
17. Dr. Anupam Basu, BU
19. Dr. Gispatri Chakraborty, BU
20. P.S to Vice Chancellor /P.S. to Pro- Vice Chancellor/ P.A to Registrar



सूचना का
अधिकार



ब्लॉक-2, 7 वां तल, सी० जी० ओ० कम्प्लेक्स
लोदी रोड, नई दिल्ली-110003
Block-2, 7th Floor C.G.O. Complex
Lodi Road, New Delhi-110003

BT/BS/17/320/2008-PID

Dated: 28.09.2018

OFFICE MEMORANDUM

Subject: Nomination of DBT representative in the IBSC of The University of Burdwan (UOB), Burdwan, West Bengal.

In accordance with the Notification of the Ministry of Environment and Forests vide Gazette Notification No. GSR 1037 (E) dated 05.12.1989, notified under the E.P. Act 1986, the Department of Biotechnology (DBT) had evolved the "Regulations and Guidelines for Recombinant DNA Research and Biocontainment, 2017" for achieving for personnel and environmental safety in the use of genetically manipulated organisms in research, manufacture and applications. The constitution of the Institutional Biosafety Committee (IBSC) is mandatory in R&D Centres at the institutions/universities/ industries/ any other organization which intend to carry out or are engaged in research activities involving genetic manipulation of genetic materials, microorganisms, plants or animals.

2. In conformity with the above, institutions engaged in genetic engineering research have constituted their IBSCs and the department has nominated its representatives in all such committees. Accordingly, Dr. Sudit Shekhar Mukhopadhyay, Asso. Professor, Deptt. of Biotechnology, National Institute of Technology (NIT), Durgapur - 713 209 (West Bengal) has been nominated to act as a DBT representative in the IBSC constituted at The University of Burdwan, Deptt. of Zoology, Golapbag, Burdwan - 713 104 (West Bengal).

The complete composition of the IBSC is as under:

Chairman	: Prof. Nimai Chandra Saha, Vice Chancellor, UOB, Burdwan
DBT Nominee	: Dr. Sudit Shekhar Mukhopadhyay, Asso. Professor, Deptt. of Biotechnology, NIT, Durgapur
Member Secretary	: Prof. Anupam Basu, Deptt. of Zoology, UOB, Burdwan
Outside Expert (s)	: Prof. Subrata Dey, Pro-Vice Chancellor, Maulana Abul Kalam Azad University of Technology, Kolkata
Biosafety Officer	: Dr. Gispati Chakrabarti, SMO, UOB, Burdwan
Internal Member (s)	: Prof. Apurba Ratan Ghosh, Deptt. of Environmental Science, UOB, Burdwan : Dr. Tushar Kanti Maiti, Head, Deptt. of Botany, UOB, Burdwan : Dr. Anandamay Barik, Asso. Professor & Head, Deptt. of Zoology, UOB, Burdwan : Dr. Indrani Chandra, Ass. Professor & Teacher-in-Charge, Deptt. of Biotechnology, UOB, Burdwan : Dr. Pradipta Saha, Teacher-in-Charge, Deptt. of Microbiology, UOB, Burdwan

3. The DBT nominee serves as the link between the department and the respective IBSC. The nominee should ensure that:

- the committee has been constituted as per the norms of the guidelines,
- the Recombinant DNA Safety Guidelines are strictly followed in the company,
- the IBSC meets regularly (at least twice in a year) to review the ongoing activities and provide yearly reports to RCGM/ DBT in the prescribed proforma,
- all the activities within the purview of the guidelines are in the knowledge of RCGM/DBT and to guide the IBSC on biosafety issues,
- the IBSC will follow the 'Simplified Procedures/ Guidelines on Exchange (inter-state and inter-institutional supply/ receipt within India), Import and Export of Genetically Engineered Organism and Product(s) thereof for Research Purpose', as per the Department's OM Nos. BT/BS/17/635/2015/PII dated 22.09.2015 and dated 01.04.2018.

Website: <http://www.dbtindia.nic.in> <http://www.bti.net.gov.in>

दूरभाष / Telephone : 24363012, 24362329 फैक्स / Fax : 011-24362884

-Contd.

তারিখ / Date	24/09/21	NAME OF MEMBERS PRESENT	সময় / Time	1:30 PM
১। ১.	২৪/৯/২১	৮। ৪.	১৫। ১৫.	
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৩। ৩.	২৪/৯/২১	১০। ১০.	১৭। ১৭.	
৪। ৪.	২৪.৯.২১.	১১। ১১.	১৮। ১৮.	
৫। ৫.	২৪/৯/২১.	১২। ১২.	১৯। ১৯.	
৬। ৬.	২৪/৯/২১.	১৩। ১৩.	২০। ২০.	
৭। ৭.	২৪/০৭/২১	১৪। ১৪.	২১। ২১.	

নং / No.	রেজল্যুশন / Resolution Adopted
	At the outset members of the committee and Hon. Dept. of Zoology welcome Prof. (Dr.) Prabir Sengupta as newly appointed Principal, Burdwan Medical College and Hospital. and ex-officio chairperson of Ethics Committee, BU.
১)	Ph.D research proposal entitled 'Studies on the molecular interaction of host genetic factors and vaginal bacteria with HIV infection in human cervix,' submitted by Mrs. Arindita Goswami, Dept. of Zoology, BU, has been discussed and approved. (IEC No - IEC/BU/2021/5)
২)	Ph.D research proposal entitled 'A study of the genetic background for a suspected case of hypercalcaemia hypocalcaemia,' submitted by Prof. Anupam Basu, Dept. of Zoology, BU, has been discussed and approved. (IEC No - IEC/BU/2021/6)
৩)	Project research proposal entitled 'Understanding the mutational landscape for the commonly occurring rare genetic disorders in eastern Indian population,' submitted by Prof. Anupam Basu, Dept. of Zoology, BU, has been discussed and approved. (IEC No - IEC/BU/2021/7).
৪)	Ph.D research proposal entitled 'Effect of combined modulation

Ph.D. research proposal entitled, "Study on the role of Toll-like Receptor-1 in crosstalk between cancer cells and macrophages for Breast cancer progression." Submitted by Ms. Banani Majumdar, Dept of Zoology, BU, has been discussed and approved (IEC No - IEC/BU/2021/8).

5) Ph.D. research proposal entitled, "Study on the role of Toll-like Receptor-1 in crosstalk between cancer cells and macrophages for Breast cancer progression." Submitted by Ms. Banani Majumdar, Dept of Zoology, BU, has been discussed and approved. (IEC No - IEC/BU/2021/9)

6) Ph.D. research proposal entitled, "Characterization of the subsets of differential transcriptional profile among the transfusion dependent and non-transfusion dependent E-Beta Thalassemia subjects"; submitted by Ms. Nibedita Mitra, Dept of Zoology, BU has been discussed and approved. (IEC No - IEC/BU/2021/10)

7) Ph.D. research proposal entitled, "Methylation analysis on the erythroid differentiation genes of different types of thalassemia"; submitted by Ms. Uparan Bhattacharyya, Dept of Zoology, BU, has been discussed and approved (IEC No - IEC/BU/2021/11).

8) Project Research proposal entitled, "A study of the genetic background of a case of chronic progressive external ophthalmoplegia with suspected Congenital Myasthenic Syndrome," submitted by Prof. Anupam Basu, Dept of Zoology, BU, has been discussed and approved. (IEC No - IEC/BU/2021/12)

9) Project Research proposal entitled, "Understanding the molecular pathways and DNA methylation pattern for differential maturation and apoptosis of erythroid progenitor cells of severe and non-severe E-Beta thalassemia"; submitted by Prof. Anupam Basu, Dept of Zoology, BU, has been discussed and approved. (IEC No - IEC/BU/2021/13)

মিটিং / Meeting No.	
তারিখ / Date	

উপস্থিত সভ্যগণের নাম
NAME OF MEMBERS PRESENT

স্থান / Place	
সময় / Time	

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নং / No.

রেজল্যুশন / Resolution Adopted

- ১০) PhD research proposal titled, "Study on the effective Hematopoiesis by augmenting agents as drug-able compounds for Thalassemia Treatment", Submitted by Dr. Prosanto Choudhury, Dept. of Zoology, BU. has been discussed and approved. (IEC NO = IEC/BU/2020/ IEC/BU/2020/14).

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24/09/21

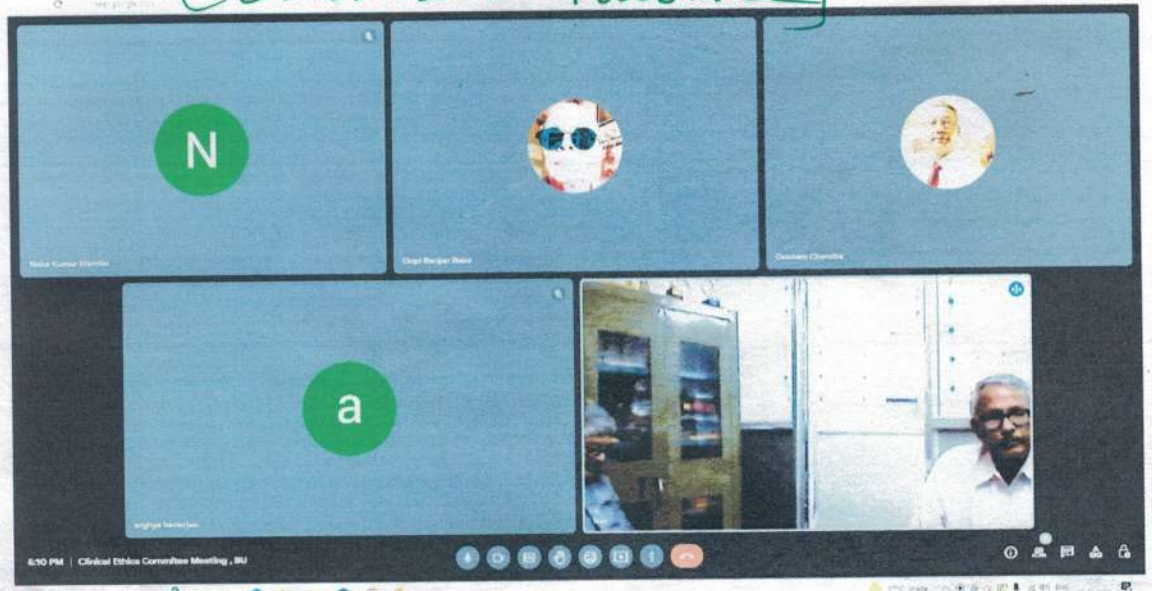
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24/09/21

মিটিং রেজল্যুশন MEETING RESOLUTION BOOK

মিটিং / Meeting No.	উপস্থিত সভ্যগণের নাম NAME OF MEMBERS PRESENT	স্থান / Place সময় / Time
তারিখ / Date		
১। ১. Kaustav Nayer	৮। ৮.	১৫। ১৫.
২। ২. Anupam Basu	৯। ৯.	১৬। ১৬.
৩। ৩. Paramita Mandal	১০। ১০.	১৭। ১৭.
৪। ৪. Sripati Chakrabarti	১১। ১১.	১৮। ১৮.
৫। ৫. Sharke Nath Mandal	১২। ১২.	১৯। ১৯.
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৭। ৭.	১৪। ১৪.	২১। ২১.

নং / No.	রেজল্যুশন / Resolution Adopted
১।	At the outset members of the committee welcome Prof. Dr. Kaustav Nayer as appointed Principal, Burdwan Medical College and Hospital and ex-officer chairperson of ethics committee, BU.
২।	Members also present present in online (virtual) mode and offline mode.

[ONLINE Presence]



1) Ph.D. Research proposal entitled "Hydrogeochemistry of arsenic and associated heavy metals in Murshidabad District, West Bengal: Spatial Distribution, bioaccumulation and associated human health risk" submitted by Mr. Debojyoti Mishra, Dept. of Environmental Science, BU, has been discussed and approved. (IEC/BU/2022/1).

2) Research proposal entitled, "Parenthood and Artificial Reproductive Technologies- Emergent Issues: A sociological Study in Some Selected Urban centers of West Bengal" submitted by Mrs. Sumana Das, Dept. of Sociology, BU, has been discussed and committee opined for resubmission ~~with~~ of proposal with proper methodology and study questionnaires. (IEC/BU/2022/2).

3) Ph.D. Research proposal entitled, "Spatio-temporal analysis of tuberculosis in some selected districts of West Bengal." submitted by Mr. Tapan Pramanick, Dept. of Geography, BU, has been discussed and approved. (IEC/BU/2023/1).

4) Ph.D. Research proposal entitled, "Understanding the prevalence and risk factors for cervical human papillomavirus infection among women in eastern region of India." submitted by ~~Mr.~~ Suranjana Ghosh, Dept. of Zoology, BU, has been discussed and approved. (IEC/BU/2023/2).

মিটিং / Meeting No.	
তারিখ / Date	

উপস্থিত সভ্যগণের নাম
NAME OF MEMBERS PRESENT

স্থান / Place	
সময় / Time	

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রেজল্যুশন / Resolution Adopted

৫)

Research proposal entitled, "Morbidity risk of industrial area youth due to exposure, bio-accessibility and reactivity of different micro-environmental air pollution submitted by Mr. Sukanta Nayak, Dept. of Environmental Science, BU has been discussed and approved. (IEC/BU/2023/3)

[Signature]
18/3/23

✓
18/3/23

1

IBSC

মিটিং রেজল্যুশন বই

MEETING RESOLUTION BOOK

মিটিং নং /Meeting No.	3
তারিখ /Date	8/02/22

উপস্থিত সভ্যগণের নাম
NAME OF MEMBERS PRESENT

স্থান Place	
সময় Time	

১। ১। Nimai Chandra Saha	৮। ৮। Anupam Basu	১৫। ১৫।
২। ২। Subir S. Mukhopadhyay	৯। ৯।	১৬। ১৬।
৩। ৩। Jishankanti Harte	১০। ১০।	১৭। ১৭।
৪। ৪। Anurani Chandra	১১। ১১।	১৮। ১৮।
৫। ৫। Pradypta Saha	১২। ১২।	১৯। ১৯।
৬। ৬। Anandamoy Barik	১৩। ১৩।	২০। ২০।
৭। ৭। Bipati Chakrobarti	১৪। ১৪।	২১। ২১।

নং /No.	রেজল্যুশন / Resolution Adopted
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At the outset IBSC Chairperson, Honourable V C, Burdwan University welcome all the members .

Committee reviewed the following proposal and endorsed as follows :

1) IBSC Approval No. :BU/IBSC/22/ Zo/36

Title: Examining the bioremediation effects of herbal plant leaf powders on heavy metal and metalloid toxicity in fish *Anabas testudines* and fish food organism *Tubifex tubifex*

By

Prof. Nimai Chandra Saha,
Vice Chancellor, BU

2) IBSC Approval No. :BU/IBSC/22/ Zo/37

Title: Revelling mechanism of infection and structure assisted drug discovery to fish pathogenic oomycete *Saprolegnia parasitica*

By

Dr. Priyajit Banerjee,
nPDF, Zoology

3) IBSC Approval No. :BU/IBSC/22/ Zo/38

Title: Studies on the molecular interaction of host genetic factors and vaginal bacteria with HPV infection in human cervix,

By

Ms. Anindita Goswami,
Research Fellow, Zoology

4) IBSC Approval No. :BU /IBSC/22/ Zo/39

Title: Exploring Thymidine Phosphorylase as a Novel Target for colon cancer Immunotherapy

2 IBSC

5) IBSC Approval No. :BU /IBSC/22/ Zo/40

Title: Study on the toxicity of some chemicals commonly found in the sewage and factory effluents to the aquatic organisms and their probable bioremediation

By

Ms. Pramita Sharma,
Research Fellow, Zoology

6) IBSC Approval No. :BU /IBSC/22/ Zo/41

Title: Breeding habitat characterization of *Aedes aegypti* in the costal areas of Digha and it's control salt tolerant bacterial agents.

By

Mr. Souvik Bag,
Research Fellow, Zoology

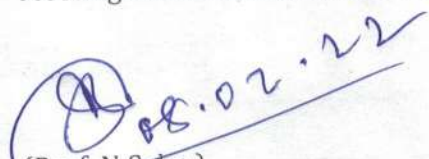
7) IBSC Approval No. :BU /IBSC/22/ BT/03


Title: In vitro regeneration of *Basilicum polystachyon* (L) Monech and monitoring Phytochemical changes under different stress

By

Mr. Sumonta Das
Research Fellow, Biotechnology

Meeting ended thanks to CHAIR


(Prof. N Saha)
Chairperson


(Prof. A Basu)
Member Secretary

26/5/23

6) Title: Isolation, characterization and potential application of endophytic bacteria from aromatic rice of West Bengal

By Prof. Rajib Bandopadhyay ,Dept. of Botany : APPROVED

7) Title: *In vitro* regeneration of *Basilicum polystachyon* (L.) Moench and monitoring phytochemical changes under different stress

By Dr. Indrani Chandra, Dept. of Biotechnology : APPROVED

8) Title: Study on biodegradation mechanism of profenofos insecticide by selected bacterial isolation

By Dr. Santanu Pailan, Dept. of Biotechnology : APPROVED

9) Title: Cultivation and biochemical response of selected bacteria from fresh water bodies of West Bengal isolated on nutritionally poor media

Dr. Pradipta Saha, Dept. of Microbiology: APPROVED

10) Title: Isolation, identification and characterization of bacteria from gut of *Gonocephalum* and their biotechnological potential

Dr. Pradipta Saha, Dept. of Microbiology: APPROVED

11) Title: Molecular characterization of an aurora kinase homolog from *Entamoeba histolytica*

BY Dr. Somasri Dam, Dept. of Microbiology: APPROVED

12) Title: Molecular characterization of anaphase-promoting complex from *Entamoeba histolytica*

By Dr. Somasri Dam, Dept. of Microbiology: APPROVED

13) Title: Evaluation of pharmacological potential of plant associated fungi isolated from medicinal plants

By : Dr. Somasri Dam, Dept. of Microbiology: APPROVED

14) Title: Isolation and characterization of dominant microbes from the fermented beverage consumed by a tribal community in the district of Birbhum, West Bengal, India and their bioprospecting

By Dr. Somasri Dam, Dept. of Microbiology: APPROVED

[Handwritten signature]
26/5/23
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26.5.23

15) Title: Understanding the prevalence and risk factors for cervical human Papilloma virus infection among women in Eastern region of India

By Dr. Paramita Mandal, Dept. of Zoology: APPROVED

16) Title: Diversity of soil bacteria of tropical dry deciduous forest of Ajodhya hills, Purulia with or special emphasis on their bio-control potential

By Prof. Soumendranath Chatterjee, Dept. of Zoology: APPROVED

17) Title: An appraisal on haemolytic gut bacteria in *Culicoides* spp. (Diptera: Ceratopogonidae) having medico veterinary importance.

By Prof. Abhijit Mazumdar, Dept. of Zoology: APPROVED

18) Title: Investigation of the factors affecting pre and post oviposition in *Culicoides* spp. (Diptera: Ceratopogonidae) of veterinary importance

By Prof. Abhijit Mazumdar, Dept. of Zoology: APPROVED

19) Title: Genetically modified allogenic CD20 targeted NK cells for the treatment of transplant ineligible elderly relapsed diffuse large B-cell lymphoma

By Dr. Sumit Kumar Hira, Dept. of Zoology: APPROVED

20) Title: Delineating the mechanism of anti-leishmanial activity of leukotriene receptor antagonists targeting *L. donovani* polyamine/putrescine transporter for drug repurposing studies

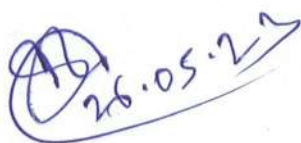
By Dr. Sumit Kumar Hira, Dept. of Zoology: APPROVED

21) Title: CD70 targeting CAR-NK-cell therapy for non-Hodgkin B-cell lymphoma and other CD70-Expressing hematopoietic malignancies

By Dr. Sumit Kumar Hira, Dept. of Zoology: APPROVED

22) Title: Toxicity of cadmium, mercury and lead to fish *Tilapia nilotica* (Linnaeus, 1758) caused due to industrial pollution and their bioremediation through plant extract

By Dr. Tapajit Bhattacharya and Prof. (Dr.) Nimai Chandra Saha, Dept. of Zoology: APPROVED

26.05.23

26/5/23

6 - 18sc
23) Title: Comparative toxicity of some heavy metals (arsenic, nickel and chromium) on the basis of their bioaccumulation pattern and histopathological changes in *Anabas testudineus*

By : Prof. Anandamay Barik and Prof. (Dr.) Nimai Chandra Saha, Dept. of Zoology:
APPROVED

24) Title: Effects of neonicotinoids on aquatic organisms: Evaluating the impacts of lethal and sublethal exposure to Clothianidin, Dinotefuran and Thiacloprid


By Prof. (Dr.) Nimai Chandra Saha, Dept. of Zoology: APPROVED

25) Title: Effects of sodium dodecyl benzenesulphonate (SDBS), Alpha-olefin sulphonate (AOS) and their binary mixture on *Tubifex tubifex* and *Anabas testudineus* and their bioamelioration using dl. Alpha tocopherol, an active ingredients of papaya leaf

By Prof. Sanjoy Podder and Prof. (Dr.) Nimai Chandra Saha, Dept. of Zoology: APPROVED

B) Agenda 2: Waste disposal : committee urges the implementation of waste disposal as per earlier recommendation .

Meeting ended with thanks to chair.


28.05.23
(chairperson)


28/5/23
(Member Secretary)

SYLLABUS FOR Ph.D. COURSE WORK

Effective from 2020 (Session: July - December)



DEPARTMENT OF STATISTICS

THE UNIVERSITY OF BURDWAN, BURDWAN

Course Outline

Semester	Course Code	Course Title	Credit Value	Marks Distribution
Sem-I	PHDCW-101	Research Methodology	4	50
	PHDCW-102	Research and Publication Ethics (RPE)	2	25
	PHDCW-103	Statistical Computing	4	50
	PHDCW-104	Term Paper	4	50
	Total		14	175

Detailed Syllabus

Semester-I

PHDCW-101

Research Methodology

50 Marks/ 4 Credits

1. Research Methods

25 Marks/ 2 Credits

- Meaning and Definition of Research, Types of Research, Research Process and Steps in it
- Search for existing literature, Review of literature on selected topic, writing up the review
- Review of research articles, Formulation of research problem, Presentation and Discussion of Research Problems
- Research Proposal and Report

References:

- CR Kothari (2004) : Research Mythology: Methods and Techniques, New Age International Publishers, ISBN (13): 978-81-224-2488-1
- Ranjit Kumar (2011) : Research Methodology a Step-by-Step Guide for Beginners, SAGE, ISBN : 978-1-84920-300-5

2. Brief History of Statistics

25 Marks/ 2 Credits

- PREHISTORY, BEGINNING OF HISTORY, AND THE TODDLING PERIOD
- NEW CONCEPTS AND METHODS—PRE-BAYESIAN ERA
- BEGINNING OF THE PRO-SUBJECTIVE APPROACH

References:

- Shoutir Kishore Chatterjee (2003): Statistical Thought: A Perspective and History, Oxford, DOI:10.1093/acprof:oso/9780198525318.001.0001
- Stephen Stigler (1986): The History of Statistics: The Measurement of Uncertainty Before 1900, Harvard University Press, ISBN: 9780674403413

PHDCW -102

Research and Publication Ethics (RPE)

25 Marks/ 2 Credits

- Philosophy and Ethics: Introduction to Philosophy: definitions, nature and scope, concept, branches, Ethics: definitions, moral philosophy, nature of moral judgments and reactions.

- Scientific Conducts: Ethics with respect to science and research, Intellectual honesty and research integrity, scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP). Redundant Publications: duplicate and overlapping publications, salami slicing; Selective reporting and misrepresentation of data.
- Publications Ethics: Publications Ethics: definitions, introductions and importance. Best practices/standards setting initiatives and guidelines: COPE, WAME, etc. Conflicts of interest, Publications misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types. Violations of publications ethics, authorship and contributorship; Identification of publication misconduct, complaints and appeals; Predatory publishers and journals.
- Open access publishing: Open access publications and initiatives, SHERPA/RoMEO online resource to check publisher copyright and self-archiving policies, Software tool to identifying predatory publications developed by SPPU, Journal finder/ journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer journal Suggester, etc.
- Publication Misconduct: Group Discussions: Subject specific ethical issues, FFP, authorship, Conflicts of interest, Complaints and appeals: examples and fraud from India and abroad. Software tools: Use of plagiarism software like Turnitin, Urkund and other open source software tools.
- Databases and Research Metrics: Databases: Indexing databases, Citation databases: Web of Science, Scopus, etc. Research Metrics: Impact Factor of journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score, Metrics: h-index, g-index, i10 index, altmetrics.

References:

- Bird, A. (2006). *Philosophy of Science*. Routledge.
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- P. Chaddah, (2018) *Ethics in Competitive Research: Do not get scooped; do not get plagiarized*, ISBN: 978-9387480865.
- National Academy of Sciences, national Academy of Engineering and Institute of Medicine. (2009). *On Being a Scientist: A Guide to Responsible Conduct in Research: Third Edition*. National Academies Press.
- Resnik, D.B. (2011). What is ethics in research and why is it important. National Institute of Environmental Health Sciences, 1-10, Retrieved from <https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm>
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- Indian National Science Academy (INSA), *Ethics in Science Education, Research and Governance* (2019), ISBN: 978-81-939482-1-7. http://www.insaindia.res.in/pdf/Ethics_Book.pdf.

PHDCW-103

Statistical Computing

50 Marks/ 4 Credits

- R language and its applications in Statistics
- Python language and its applications in Statistics

References:

- Julian J. Faraway (2014): Linear Models with R , Chapman & Hall/CRC Texts in Statistical Science, ISBN (13): 978-1439887332
- Youngjo Lee, Lars Ronnegard, Maengseok Noh (2017): Data Analysis Using Hierarchical Generalized Linear Models with R, Chapman and Hall/CRC, ISBN (13): 978-1138627826
- Gareth M. James, Daniela Witten, Trevor Hastie, R J Tibshirani (2013): An Introduction to Statistical Learning: With Applications in R, Springer Texts in Statistics, ISBN (13): 978-1461471370

PHDCW -104

50 Marks/ 4 Credits

Term Paper

25 Marks/ 2 Credits

- To write a review literature of a research paper.
- To discuss the result in that paper.
- Developing some results related to the paper.
- To discuss the merits and demerits of the paper.
- To discuss the conclusions according your views.

Presentation and Viva-Voce

25 Marks/ 2 Credits

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Regulations relating to Doctoral (Ph.D.) Degrees

[Approved by the Executive Council in its meeting held on 28.12.2016 (vide Item No. 195(AOM) and amended on 21.03.2017 (vide Item No. 283 (AOM))]

In exercise of the powers conferred upon it by clause (c) of Section 51 and clause (xxiii) of Section 21 of the Burdwan University Act, 1981 (West Bengal Act XXIII of 1981) read with its up-to-date amendments, hereafter in these Regulations referred to as 'the Act' and the relevant provisions of the University Ordinances relating to Doctoral Degrees, the University makes the following Regulations, namely:

THE UNIVERSITY REGULATIONS RELATING TO DOCTORAL (PH.D.) DEGREES
READ WITH THE UNIVERSITY ORDINANCES RELATING TO DOCTORAL DEGREES

Short Title and
Commencement

U. Reg. 1 (Doct.) (1) These Regulations may be called the University Regulations relating to Doctoral Degrees.

(2) They shall come into force from such date as determined/passed by the Executive Council of the University.

Interpretation

U. Reg. 2 (Doct.) (1) In these Regulations, unless the context requires otherwise, words and expressions used shall have the same meaning as they have in the Act.

(2) The provisions of the Regulations and the Rules of the University, in so far as they affect the matters provided herein, if in conflict with these Regulations, shall stand modified in the light of the Regulations.

Eligibility criteria
for admission to
Ph.D. programme

U. Reg. 3 (Doct.) (1) Candidates holding the Master's Degree of The University of Burdwan or a professional degree or a degree considered to be equivalent to the Master's Degree of The University of Burdwan in the subject concerned or allied/relevant subject, with at least 55% marks in aggregate or its equivalent grade 'B' in the UGC-7 point scale (or an equivalent grade in a point scale wherever grading system is followed) or an equivalent degree from a foreign educational institution accredited by an Assessment and Accreditation Agency which is approved, recognized or authorised by an authority, established or incorporated under a law in its home country or any other statutory authority in that country for the purpose of assessing, accrediting or assuring quality and standards of educational institutions, may apply to the Secretary of the Faculty Council for Post-graduate Studies concerned in the prescribed form for admission to the Ph.D. programme in any of the subjects in which the Doctoral Degree may have been instituted.

(2) A relaxation of 5% of marks, from 55% to 50% or equivalent relaxation of grade may be allowed for those belonging to SC/ST/OBC-A/OBC-B/Differently Abled and other categories of candidates as per the decision of the UGC from time to time or for those who had obtained their Master's degree prior to 19th September 1991.

(3) The eligibility marks of 55% (or an equivalent grade in a point scale wherever grading system is followed) and the relaxation of 5% to the categories mentioned above are permissible based only on the qualification marks without including the grace mark procedures.

(4) Subject to fulfillment of the conditions stipulated in clause (1) or (2), and (3) above,

- (i) candidates who have cleared the full-time regular M.Phil. course work with at least 55% marks in aggregate or its equivalent grade 'B' in the UGC 7-point scale (or an equivalent grade in a point scale wherever grading system is followed) and successfully completing the M.Phil. Degree shall be eligible to proceed to do research work leading to Ph.D. degree in an integrated doctoral programme. A relaxation of 5% marks from 55% to 50% or an equivalent relaxation of grade may be allowed for those belonging to SC/ST/OBC-A/OBC-B/differently abled and other categories of candidates as per the decision of the UGC from time to time.
- (ii) a candidate whose M.Phil. dissertation has been evaluated and the viva voce is pending may be admitted to the Ph.D. programme.
- (iii) candidates possessing a Degree, considered equivalent to the M.Phil. Degree of The University of Burdwan, from a foreign educational institution accredited by an Assessment and Accreditation Agency which is approved, recognized or authorised by an authority, established or incorporated under a law in its home country or any other statutory authority in that country for the purpose of assessing, accrediting or assuring quality and standards of educational institutions, shall be eligible for admission to Ph.D. programme.

Notification for admission

(5) Ahead of the admission process the University will notify the number of seats for admission, subject-/discipline- wise distribution of available seats, criteria for admission, procedure for admission and all other relevant information related to admission to Ph.D. programme through its website and advertisement in leading newspapers of which at least one (1) shall be in the regional language. Every application in response to the notification for admission to the Ph.D. programme shall contain a full statement of the qualifications of the candidate with the relevant supporting documents.

Reservation policy

(6) State level reservation policy shall be taken into consideration while admitting students in the Ph.D. programme.

Duration of the programme

(7) Ph.D. programme shall be for a minimum duration of three years, including Course Work and a maximum of six years.

(8) The women candidates and Persons with Disability (more than 40%) may be allowed a relaxation of two years for Ph.D. programme in the maximum duration. The women candidates shall have Maternity Leave/Child Care Leave once in the entire duration of Ph.D. programme up to 240 days.

Procedure for admission – Entrance Test

U. Reg. 4 (Doct.) (1) For getting admission to the Ph.D. programme a candidate shall have to appear for the written test to be conducted by the Secretary of the Faculty Council for Post-graduate Studies concerned under the direct supervision of the Dean of the Faculty Council for Post-graduate Studies concerned in consultation with the respective Heads of its related University Departments of Studies / Directors or Chairmen of its related University Schools of or Centres for Studies and secure

minimum qualifying marks of 50%, or as may be determined by the Executive Council from time to time, in this Entrance Test. The syllabus of the Entrance Test shall consist of 50% of research methodology and 50% shall be subject specific.

Exemption from
Entrance Test

(2) Candidates who have a full-time regular M.Phil. Degree with course work or have qualified in the UGC-NET (including JRF)/CSIR-NET (including JRF)/SET/SLET/GATE or teacher fellowship shall be exempted from appearing at the Entrance Test for admission to the Ph.D. programme.

Procedure for
admission –
Interview

U. Reg. 5 (Doct.) After qualifying in the Entrance Test or getting exemption from it, each candidate shall have to appear for an interview to be conducted by the Doctoral Committee at the level of individual University Department of Studies/University School of or Centre for Studies concerned. At the time of interview, the Doctoral Committee will objectively assess the research interest of the candidate in the relevant field/area as well as his/her past academic records, and award marks giving weightage to these components as follows:

Component	Marks	Break up, if any	Marks	Remarks
Academic records	30	Under-graduate degree	10	To be awarded on the basis of % of marks obtained by the candidate
		Post-graduate degree	15	
		NET/SET/SLET/GATE	05	
Viva voce	20			
Total	50			

Subject-wise merit list will be prepared and the allotment of the Supervisor(s) for each candidate shall be decided by the Doctoral Committee in its subsequent meetings before the commencement of the Course Work keeping in view the research interest of the candidate, expertise of the Supervisor(s) and also the number of existing research scholars of the Supervisor(s). The Doctoral Committee will also assess the eligibility of candidates in respect of suitability/inter-disciplinarity/relevance of the subject opted for.

Doctoral
Committee and its
composition

U. Reg. 6 (Doct.) A. (1) There shall be a Doctoral Committee for each of the University Departments of Studies/University Schools of or Centres for Studies. The members of the Doctoral Committee shall be–

- (a) all whole time teachers of the University Department/University School or Centre,
- (b) one external subject expert to be nominated by the Vice-Chancellor from a panel of three experts recommended by the Departmental Committee concerned, and
- (c) two whole time teachers of constituent colleges of the University imparting instruction in the subject concerned at the Post-graduate level, if any, to be nominated by the Vice-Chancellor from a panel of five such teachers recommended by the Departmental Committee concerned.

Ad Hoc Doctoral
Committee and its
composition

(2) In respect of a subject/discipline, (i) in which there is no University Department of Studies or University School of or Centre for Studies, but in which post-graduate

instruction is imparted at affiliated/constituent college(s) of the University or (ii) in which there is no post-graduate teaching either at the University Department of Studies or at affiliated or constituent college(s) of the University, an Ad Hoc Doctoral Committee will be constituted as follows:

- (a) The Dean of the Faculty concerned or his/her nominee not below the rank of a Professor,
- (b) Three teachers of the affiliated/constituent colleges of the University imparting instruction in the subject/discipline concerned at the Post-graduate level, if any, to be nominated by the Vice-Chancellor.
- (c) Two external experts in the subject/discipline concerned, to be nominated by the Vice-Chancellor.

Chairman of
Doctoral/Ad Hoc
Doctoral
Committee

(3) The Head of the University Department/Chairman or Director of the University School or Centre shall act as the Chairman of the respective Doctoral Committee. In case of Ad Hoc Doctoral Committee the Dean of the Faculty Council for Post-graduate Studies concerned or his/her nominee not below the rank of a Professor, shall act as its Chairman.

Meeting and
Quorum

(4) One-third of the total number of members plus one of the Doctoral Committee shall form the quorum for a meeting of the Committee which shall be convened by the Secretary, Faculty Council for Post-graduate Studies concerned on the recommendation of the Chairman of the Committee.

(5) If deemed necessary by the Chairman of the Doctoral Committee, supervisors concerned may be invited to attend and participate at the meeting of the Doctoral Committee, but they shall have no right to vote.

Appointment of
members and
tenure

(6) The members of the Doctoral Committees/Ad Hoc Doctoral Committees prescribed in *U. Reg. 6 (Doct.) A. (1) (b) & (c) and U. Reg. 6 (Doct.) (A). (2) (b) & (c)* shall be appointed by the Secretary, Faculty Council for Post-graduate Studies concerned with the approval of the Vice-Chancellor and continue to function for a period of four years.

Term of office of
members

(7) The term of office of the members, other than ex-officio members, shall be as specified in section 36 of the Act.

Powers and duties
of the Doctoral
Committee

(8) The Doctoral Committee in its meeting shall –

- (a) Conduct viva voce test of candidates for admission to Ph.D. programme,
- (b) Select candidates for Ph.D. programme and allot/approve the supervisor(s) for each candidate,
- (c) Consider the applications of the candidates and take decision thereof or such other decisions as desired by the Vice-Chancellor relating to the admission and course work for Ph.D. programme in the subject concerned.
- (d) Declare the persons who qualify in the course work and subsequently recommend their names for registration as candidates for Ph.D. programme.

(9) The recommendations and reports of the Doctoral Committee will be forwarded to the Secretary, Faculty Council for Post-graduate Studies concerned for keeping records and also for onward transmission to the Registrar for consideration of the appropriate Board of Research Studies.

Research Advisory Committee and its composition	<p>B. (1) There shall be a 3-member Research Advisory Committee for each Ph.D. scholar. The members of the Research Advisory Committee shall be–</p> <ul style="list-style-type: none"> (a) the Research Supervisor (or Co-Supervisor, in cases where the Research Supervisor is not available) of the scholar, who shall be the Convenor of this Committee; (b) the Head of the Department concerned: <ul style="list-style-type: none"> Provided that in cases where the Head of the Department concerned is the Research Supervisor, one senior regular faculty member in the department is to be nominated by the Chairman, Board of Research Studies concerned in consultation with the Supervisor as the member of the Research Advisory Committee; and (c) an expert from department concerned or allied/relevant department(s) of the University to be nominated by the Chairman, Board of Research Studies concerned from the panel of three members submitted by the Research Supervisor in consultation with the Head of the Department.
Research Advisory Committee for independent candidates	<p>Provided further that in case of an independent Ph.D. candidate (i.e., without being attached to a Supervisor), the Research Advisory Committee will be comprised of–</p> <ul style="list-style-type: none"> (a) the Head of the Department concerned, who shall be the Convenor of this Committee; (b) one senior regular faculty member in the department, to be nominated by the Head of the Department concerned; and (c) an expert from department concerned or allied/relevant department(s) of the University to be nominated by the Chairman, Board of Research Studies from the panel of three members recommended by the Departmental Committee.
Powers and duties of the Research Advisory Committee	<ul style="list-style-type: none"> (2) This committee shall have the following responsibilities: <ul style="list-style-type: none"> (i) To review the research proposal and propose the topic of research. (ii) To guide the research scholar to develop the study design and methodology of research and indentify the course(s) that he/she may have to do. (iii) To periodically review and assist in the progress of the research work of the research scholar. (iv) Recommend the name(s) of Examiner(s) for evaluation of term paper (or any other paper, if deemed necessary) as a part of the course work to be pursued by any doctoral candidate. (3) A research scholar shall appear before Research Advisory Committee once in six months to make a presentation of the progress of his/her work for evaluation and further guidance. This six-monthly report shall be submitted by the Research Advisory Committee to the Board of Research Studies with a copy to the research scholar. (4) In case the progress of the research scholar is unsatisfactory, the Research Advisory Committee shall record the reasons for the same and suggest corrective measures. If the research scholar fails to implement these corrective measures, the Research Advisory Committee may recommend to the Faculty Council for PG

Studies concerned through the Board of Research Studies with specific reasons for cancellation of the registration of the research scholar.

Tenure of the
Research Advisory
Committee

(5) The Research Advisory Committee once constituted will continue to function till completion of the Ph.D. programme and its tenure would normally be coterminous with the tenure of the individual Ph.D. scholar's research work.

Research
Supervisor/Co-
Supervisor and
their eligibility

U. Reg. 7 (Doct.) (1) Any regular Professor of the University or its affiliated college with at least five research publications in refereed journals and any regular Associate/Assistant Professor of the University or its affiliated college with a Ph.D. degree and at least two research publications in refereed journals may be recognized as Research Supervisor/Co-Supervisor.

Provided that in areas/disciplines where there is no or only a limited number of refereed journals, the Board of Research Studies concerned may relax the above condition for recognition of a person as Research Supervisor with reasons recorded in writing.

(2) Only a full-time regular teacher of the University or its affiliated college can act as a Supervisor. The external supervisors are not allowed. However, Co-Supervisor can be allowed in an inter-disciplinary/multi-focal topic from the same or other department(s) of the University or from other related institutions with the approval of the Board of Research Studies concerned.

No. of scholars to
be guided

(3) A Research Supervisor/Co-Supervisor who is a Professor, at any given point of time, cannot guide more than eight (8) Ph.D. scholars. An Associate Professor as Research Supervisor/Co-Supervisor can guide up to a maximum six (6) Ph.D. scholars and an Assistant Professor as Research Supervisor/Co-Supervisor can guide up to a maximum four (4) Ph.D. scholars.

Relocation of
woman Ph.D.
scholar

(4) In case of relocation of a woman Ph.D. scholar due to marriage or otherwise, the research data shall be allowed to be transferred to the university/institution to which the scholar intends to relocate provided all other conditions in this regulations are followed in letter and spirit and the research work does not pertain to the project secured by the University from any funding agency. The scholar will, however, give due credit to the parent guide and the University for the part of research already done.

Independent Ph.D.
candidates

(5) Notwithstanding anything contained elsewhere in these regulations, a teacher of the University Department of Studies or a teacher of a college affiliated to the University may be registered for a Doctoral Degree as an independent candidate (i.e., without being attached to a Supervisor).

Requirements to be
fulfilled by
affiliated colleges,
etc for offering
Ph.D. programme

(6) Subject to fulfillment of the following academic, administrative and infrastructure requirements, a college affiliated to the University may be allowed to offer Ph.D. programmes:

- (a) if they satisfy the availability of eligible Research Supervisors, required infrastructure and supporting administrative and research promotion facilities as per this regulation, stipulated under sub-clause (c) (i), (c) (ii), and (c) (iii) as prescribed below.
- (b) Post Graduate departments of colleges, research laboratories of Government of India/state government with at least two Ph.D. qualified teachers/scientists/other academic staff in the Department concerned along with infrastructure, supporting administrative and research promotion facilities as

per these regulations, stipulated under sub-clause (c) (i), (c) (ii), and (c) (iii), shall be considered eligible to offer Ph.D. programmes.

(c) Colleges with adequate facilities for research as mentioned below alone shall offer M.Phil. programmes:

- (i) In case of science and technology disciplines, exclusive research laboratories with sophisticated equipment as specified by the University with provision for adequate space per research scholar along with computer facilities and essential software and uninterrupted power and water supply.
- (ii) Earmarked library resources including latest books, Indian and foreign journals, e-journals, extended working hours for all disciplines, adequate space for research scholars in the Department/library for reading, writing and storing study and research materials.
- (iii) Colleges may also access the required facilities of the neighbouring Universities / Colleges or of those Universities / Colleges / R&D laboratories / Organisations which have the required facilities.

Payment of fees

U. Reg. 8 (Doct.) Each Ph.D. candidate shall pay non-refundable fees, if any, separately for each component related to the Ph.D. programme as prescribed by the Executive Council of the University from time to time.

Course Work

U. Reg. 9 (Doct.) (1) A candidate after having been qualified in the written test and viva voce test [only viva voce test for exempted category of candidates as prescribed *U. Reg. 4 (Doct.)* (2)] shall have to undertake and satisfactorily complete the courses/modules equivalent to one semester Course Work of six months' duration prior to getting registration for Ph.D. programme.

(2) The credit assigned to Course Work shall be of 12 credits.

Credit based
system of Course
Work to be
followed

(3) The Course Work shall be treated as prerequisite for Ph.D. preparations. Four (04) credits shall be assigned to one and more courses on Research Methodology which could cover areas such as quantitative methods, computer applications, research ethics and review of published research in the relevant field, training, field work, etc. Other courses shall be advanced level courses preparing the students for Ph.D. degree.

(4) All the courses prescribed for Ph.D. Course Work shall be in conformity with the credit hour instructional requirement and shall specify content, instructional and assessment method duly approved by Faculty Council for Post-graduate Studies concerned. The department where the scholar pursues his/her research shall prescribe the course(s) to him/her based on the recommendations of the Research Advisory Committee of the research scholar.

Exemption from
Course Work

(5) All candidates admitted to Ph.D. programmes shall be required to complete Course Work prescribed by the Department during the initial one semester. Candidates already holding M.Phil. degree and admitted to the Ph.D. programme or those who have already completed the Course Work in M.Phil. and have been permitted to proceed to the Ph.D. in integrated doctoral programme may be exempted by the Department from the Ph.D. Course Work. All other candidates admitted to Ph.D. programme shall be required to complete the Ph.D. Course Work prescribed by the Department.

	(6) Grades in the Course Work including Research Methodology courses shall be finalized after a combined assessment by the Research Advisory Committee and the Doctoral Committee and the final grade shall be communicated to the Department of Controller of Examinations.
Qualifying marks in the Course Work examination	(7) A Ph.D. scholar has to obtain a minimum of 55% of marks or its equivalent grade in the UGC 7-point scale (or an equivalent grade / CGPA in a point scale wherever grading system is followed) in the Course Work in order to be eligible to continue in the programme and submit the thesis.
Optional paper	(8) In the Course Work a candidate may opt for any optional paper related to his/her Ph.D. work in consultation with his / her supervisor(s) [in consultation with the Head of the Department / Chairman or Director of Centre or School concerned in case of independent candidate] subject to the approval of the Research Advisory Committee concerned.
Term paper in lieu of Optional paper	(9) In place of optional paper a candidate may also choose for the term paper, which shall be on literature survey / literature review related to his / her field of research work, subject to the approval of the Research Advisory Committee concerned on the recommendation of his / her Supervisor(s) [the Head of the Department / Chairman or Director of Centre or School concerned in case of independent candidate].
Location of Course Work	(10) The course work can be carried out in the University Department of Studies / Centre for Studies / School of Studies concerned or in any sister Department / Centre / School at the University. It can also be carried out in any affiliated / constituent colleges of the University imparting instruction in the relevant discipline at the Post-graduate level or in other university / research institute with prior approval of the appropriate Research Advisory Committee.
Controller of Examinations to supervise and certify the Course Work related examination	(11) All papers including term paper of the Course Work shall be properly evaluated under the supervision of the Controller of Examinations or by an appropriate authority as per the prescribed rules and regulations of the university / college / research institute where the candidate will be allowed to carry out his / her Course Work and the candidate shall produce the relevant document evidencing the successful completion of the course before the Research Advisory Committee for its approval for registration to Ph.D. programme. On the basis of this, the Controller of Examinations of the University will issue the Course Work completion certificate to the candidate concerned.
Time for completion of Course Work	(12) The Course Work must be completed within two years from the date of qualifying in the viva voce test prescribed in <i>U. Reg.5. (Doct.)</i> .
Procedure for registration as doctoral candidate	(13) On successful completion of the Course Work the candidate shall be required to submit an application for registration as a doctoral candidate in prescribed form to the Registrar. The application shall be endorsed both by (i) the Head of the University Department of Studies or Chairman / Director of the University School of / Centre for Studies and (ii) the supervisor(s), if any, of the candidate.
Delivery of thesis pre-submission seminar	U. Reg. 10 (Doct.) (1) The candidate shall deliver at least one seminar on his / her research work before the Doctoral Committee concerned prior to submission of his/her thesis and that seminar presentation must be open to all faculty members and research students concerned for getting their feedback and comments, which are to be suitably incorporated into the thesis under the advice of the supervisor/s (the Head of the Department / Chairman or Director of Centre or School concerned in case of

independent candidate). Notification regarding delivery of pre-submission seminar will be issued by the Supervisor concerned with the approval of the Research Advisory Committee. The certificate of successful presentation of the pre-submission seminar shall be issued by the Chairman, Doctoral Committee concerned. After successfully delivering the pre-submission seminar, the candidate shall be required to submit the thesis within a period of one year from the date of the seminar, but within the validity of the registration.

Publication of paper in refereed journal and conference/seminar presentation	<p>(2) The candidate shall also –</p> <ul style="list-style-type: none"> (i) publish at least one research paper related to his research work in a refereed journal / peer reviewed journal and (ii) make two presentations in conference / seminar before submission of the thesis <p>and produce evidences for the same in the form of acceptance letter / reprint / certificate of presentation as applicable at the time of submission of his / her thesis.</p>
Procedure to be followed for ensuring academic honesty	<p>(3) The Faculty Councils for Post-graduate Studies of the University shall evolve a mechanism using well developed computer software to detect plagiarism and other forms of academic dishonesty. While submitting for evaluation, the thesis shall contain an undertaking from the research scholar and a certificate from the Research Supervisor(s) attesting to the originality of the work, vouching that there is no plagiarism and that the work has not been submitted for the award of any other degree/diploma of the University, or to any other institution.</p>
Constitution of the Board of Examiners	<p>U. Reg. 11 (Doct.) (1) The Board of Research Studies concerned shall approve names of six persons not below the rank of Professor/Scientist Grade F or its equivalent who have their expertise on the relevant field of research work, for appointment as examiners of each thesis by considering the list to be submitted by the supervisor(s), if any.</p>
Composition of the Board of Examiners	<p>(2) A Board of Examiners, consisting of two external experts and the Supervisor(s), shall be appointed by the Executive Council of which at least one external expert preferably be from outside the country. The thesis submitted by a candidate without being attached to any Supervisor will be examined by three external experts (to be appointed by the Executive Council), of which at least one expert preferably be from outside the country.</p>
Viva voce examination and Examining Committee	<p>U. Reg. 12 (Doct.) (1) The viva voce examination, based among other things, on the critiques given in the evaluation reports of thesis examiners, shall be conducted by the Research Supervisor(s) and one of the external examiners to be nominated by the Vice-Chancellor from the approved panel of examiners, and shall be open to be attended by members of the Research Advisory Committee, all faculty members of the department, other research scholars and other interested experts/researchers.</p>
Public viva voce examination and procedures to be followed when examiner(s) report is/are unsatisfactory	<p>(2) The public viva voce of the research scholar to defend the thesis shall be conducted only if the evaluation report(s) of the external examiner(s) on the thesis is/are satisfactory and include a specific recommendation for conducting the viva voce examination. If one of the evaluation reports of the external examiner is unsatisfactory and does not recommend viva voce, the University shall send the thesis to another external examiner out of the panel of examiners and the viva voce examination shall be held only if the report of the latest examiner is satisfactory. If the</p>

report of the latest examiner is also unsatisfactory, the thesis shall be rejected and the research scholar shall be declared ineligible for the award of the degree.

Depository with
INFLIBNET

U. Reg. 13 (Doct.) (1) Following the successful completion of the evaluation process and before the announcement of the award of the Ph.D. degree(s), the University shall submit an electronic copy of the Ph.D. thesis to the INFLIBNET Centre for hosting the same so as to make it accessible to all universities/ institutions/colleges.

Notification of
registered Ph.D.
scholars'
information

(2) The University shall upload the list of all registered Ph.D. scholars on its website on year-wise basis with the mention of name of registered candidates, topic of his/her research, name of his/her Supervisor and Co-Supervisor, if any, and the date of enrolment and/or registration.

Conflict resolution
and amendment

U. Reg. 14 (Doct.) In case any dispute that may arise in connection with implementation of the above Regulations, the decision of the Executive Council of the University shall be final and binding. Further, the Executive Council shall have the right to change any of these Regulations, as and when the need arises.



THE UNIVERSITY OF BURDWAN

RAJBATI : BURDWAN

Registrar's Department

No : R-S/N-1/104

Date : 16-11-2023

Notification

It is notified for information of all concerned that the Hon'ble Vice Chancellor of this University has been pleased to constitute / re-constitute the following Committees as appended below:

1. Grievance Redressal Committee with online provision and Ombudsman	
Prof Bishnu Charan Sarkar	Ombudsman
Director IQAC	Chairman
Head, Dept of Business Administration	Member
Head, Dept of Business Administration (Human Resource)	Member
2. SC/ST COMMITTEE/CELL	
Dr Biplab Biswas	Member
Moutushi Mandi	Member
Chaitali Hansda	Member
Dr Abhijit Pakira	Member
Dr Indrajit Ray	Member
Dr. Monalisa Saha	Member
Dr Namita Chakma	Chairperson Coordinator
Head, Dept of Tourism Management	Member
Head, Dept of Physics	Member
Dr Arindam Roy	Member
Dr Srabani Basu	Member
Dr Indrani Chandra	Member
Mr Arijit Adhya	Member
Dr. Debdatta Das	Member
Dr Tanmoy Dasgupta	Convener
3. MINORITY CELL	
Dr. Inul Ansary, Dept of Chemistry	Member
Dr. Ali Akbar Shaikh, Dept of Maths	Member
Dr. Asif Hossain, Dept of Zoology	Member
Md. Najimuddin Biswas	Member
Dr. Mir Abdul Sofique, Dept of Tourism Mgmt.	Chairman Coordinator



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4. OBC Cell

Dr Inul Ansary	Member
Dr Subhankar Ghosh	Member
Dr Subodh Chandra Pal	Member
Ms Ambalika Karmakar	Member
Dr Asif Hossain	Member

5. EQUAL OPPORTUNITY CELL

Prof Santosh Kr Pal	Member
Dr Suchismita Mondal	Member
Dr Indrani Chandra	Chairperson Coordinator
Dr Paramita Mondal	Member
Dr Ananta Kr Biswas	Member
Dr Anil Kumar Biswas	Member
Dr Nirmal Chandra Roy	Member
Dr Ayan Pal	Member
Dr Moni Baskey(Sen)	Member
Dr. Ali Akbar Shaikh, Dept of Maths	Member
Development Officer	Member
Placement and Students' Welfare Officer	Member

6. PLACEMENT CELL

Placement and Students' Welfare Officer	Convener
HoD, Dept of Business Administration	Member
HoD, Dept of Business Administration (Human Resource)	Member
HoD, Dept of Political Science	Member
HoD, Dept of Tourism Management	Member
HoD, Computer Science	Member
HoD, Economics	Member
HoD, Physics	Member
HoD, Chemistry	Member
Coordinator, CIESD	Member
Convener, Industry Institute Partnership Cell, CIESD	Member
Convener, Skill Development and Community Engagement, CIESD	Member

7. Counselling, Mental Health and Well-Being Cell

Placement and Students' Welfare Officer	Convener
Prof/Teacher-in-Charge, Women Studies	Member
Prof P. K Tripathy	Member
Prof Mridula Bhattacharya	Member
HoD, Psychology, BU	Member
Head, Dept of Psychiatry, Burdwan Medical College.	Member



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HoD, Sociology	Member
Medical Officer, BU	Member
Dr Khagendranath Chattopadhyay	Member
Dr Aparajita Dhar	Member
Dr Arijit Bhattacharyya	Member
Dr Abhishek Mishra	Member

8. Research and Development Cell¹

A. Research Advisory Council (RAC)

Chairman	Vice Chancellor, BU
Director	Director, IQAC
Dean, F. C. Arts etc, BU	Member of RAC
Dean, F. C. Arts Science, BU	Member of RAC
Prof Harihar Bhattacharyya	Member of RAC
Dr Naba Kumar Mondal	Member of RAC
Dr Soumyananda Dinda	Member of RAC
Dr Swati Mukhopadhyay	Member of RAC
Dr Apurba Ratan Ghosh, Coordinator, NAAC	Member of RAC

B. Committees under Research and Development Cell

Committee 1: Finance and Infrastructure
Committee 2: Research Programme, Policy Development
Committee 3: Collaboration and Community
Committee 4: Product Development, Monitoring and Commercialisation
Committee 5: IPR, Legal and Ethical Matters

9. API Committee

Director, IQAC	Chairman
Dr Apurba Ratan Ghosh	Member
Dr Sanat Kr Guchhait	Member
Dr Swati Mukhopadhyay	Member
Dr Pabitra Chattopadhyay	Member
Dr Debidas Rakshit	Member
Dr Mantu Saha	Member
Dr Partha Mitra	Member
Dr Arindam Das	Member
Dr Arindam Laha	Member
Dr Naba Kr Mondal	Convener
Dr Khagendranath Chattopadhyay	Convener

10. Data Management and Quality Initiatives Cell.

Director, IQAC	Chairman
Dr Apurba Ratan Ghosh	Member
Dr Abhijit Mazumdar	Member
Dr Tanmoy Dasgupta	Member



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Dr Arijit Bhattacharyya	Member
Dr Abhigyan Dutta	Member
Dr Tanmoy Banerjee	Member
Dr Arindam Laha	Member
Dr Aprajita Dhar	Member
Dr Arnab Kr Sinha	Member
Dr Arijit Chatterjee	Member
Dr Pradip Roy	Member
Dr Ajoy Auddy	Member
Dr Joydeep Chakraborty	Member
Mr Arijit Adhya	Member
Dr Anindya Bose	Jt Conveners
Dr Partha Sarkar	
11.1 AQAR Subcommittee	Director, IQAC, Dr Apurba Ratan Ghosh, Dr Abhijit Mazumdar, Dr Tanmoy Dasgupta, Dr Arijit Bhattacharyya, Dr Aprajita Dhar, Dr Arnab Kr Sinha, Dr Pradip Roy, Dr Ajoy Auddy, Dr Anindya Bose, Dr Partha Sarkar, Dr Arijit Chatterjee, Dr Joydeep Chakraborty (Convener)
11.2 NIRF and other Rankings subcommittee	Director, IQAC, Dr Apurba Ratan Ghosh, Dr Ajoy Auddy, Dr Anindya Bose, Dr Partha Sarkar, Dr Abhigyan Dutta, Dr Tanmoy Banerjee, Dr Arindam Laha, Dr Ajoy Auddy, Mr Arijit Adhya, Dr Joydeep Chakraborty, Dr Arijit Chatterjee (Convener)

By Order of the Vice Chancellor

Sd/-

(S.K. Chowdhury)

REGISTRAR

No : R-S/N-1/96/104(100)

Date : 16-11-2023

Copy forwarded for information to : -

01. The Dean, F.C. (Science), B.U.
02. The Dean, F.C. (Arts, Commerce, Law etc.), B.U.
03. The Director, IQAC, B.U.
04. P.A. to the Pro-Vice Chancellor, B.U.
05. Officer of the Hon'ble Vice Chancellor, B.U.


REGISTRAR