



**PRESIDENCY UNIVERSITY**  
Kolkata  
**Admission Notification for Ph.D. Programme**  
Session 2023-2024 (February cycle)

Ref.No. PU/FC/ 061 /PhD/notice/2024

Date: 30 / 01 /2024

**Online Applications** are invited from UGC or UGC – CSIR NET / NET – LS or DBT-BET (only for Institute of Health Sciences) or ICMR-NET (only for Institute of Health Sciences) qualified candidates for admission to the Ph.D. Programme of Presidency University in various departments/school/institute for the session 2023-2024 (February cycle). Only completed online applications will be considered. Applicants are required to pay Rs 500/- as application fee after submission of online form within stipulated date. No application will be considered without payment of Application Fee.

**A. Essential qualification:**

- a) Candidates for admission to the Ph.D. program shall have a Master's degree with at least 55% of marks in aggregate or its equivalent grade.
- b) A relaxation of 5% of marks or an equivalent relaxation of grade may be allowed for those belonging to SC/ST/OBC-A/OBC-B/ Person with Disability (PwD) as per UGC guidelines.
- c) UGC or UGC-CSIR NET/NET-LS qualified. ICMR-NET, DBT-BET qualified candidates are also eligible to apply for Institute of Health Sciences (IHS) only.

**B. Application Procedure and Important Dates:**

**Application form** will be available in <https://presiuniv.ac.in/web/admission.php> . Interested candidates are required to fill up the online application form. Application number will be generated after completion of online application. Use the system generated application number to pay the non-refundable application fee of Rs-500/- (and applicable bank charges) in SBI Collect Portal.

**Send/ drop the Application form along with mark-sheets/grade-cards, certificates and synopsis and copy of the Payment Receipt** to the following address:

To  
The Secretary, Faculty Councils,  
Presidency University,  
86/1, College Street,  
Kolkata-700073

No application will be considered without payment of non-refundable application fee.

**Important Dates**

Start date for applying online : 31/01/2024

Start date for online payment : 31/01/2024

Last date for applying online : 18/02/2024

Last date for online payment : 18/02/2024

**Last Date for receiving Hardcopy  
of the application**

: 20/02/2024

Interview/test schedule

: Will be communicated to short listed candidates

### C. Provisional Seat Matrix:

Department wise and category wise availability of seats are given below. Reservation of seats for Person with Disability (PwD) will be as per Department of Higher Education (University branch), Government of West Bengal order no 1084(20)-Edn(U)/EH/1U-89/13 dated 7th December, 2018. PwD seats are included in the total number of seats in respective department/School/Institute.

Sl. NO.	Department/ School/ Institute Name	Category-wise seat matrix					
		UR	SC	ST	OBC-A	OBC-B	Total
1	Bengali	2	2	0	1	1	6
2	Philosophy	1	0	1	1	0	3
3	Political Science	4	3	2	2	1	12
4	Hindi	3	0	0	1	1	5
5	Sociology	5	2	0	2	1	10
6	Chemistry	14	13	4	5	1	37
7	Geology	13	2	0	0	1	16
8	Physics	8	5	1	2	1	17
9	Life Sciences	14	5	1	2	2	24
10	Economics	5	3	1	1	1	11
11	Mathematics	12	8	2	1	2	25
12	Geography	3	0	0	1	0	4
13	Statistics	5	2	1	1	1	10
14	Institute of Health Sciences (Newtown Campus)	10	2	0	2	1	15
15	Astrophysics	2	1	1	0	1	5

### D. Available Research Areas

Department/ School/ Institute Name	Available Research Areas **
Bengali	a) Linguistics(2) b) Bengali Fiction (2) c) Medieval Bengali Literature (2)
Philosophy	a) Logic b) Ethics
Political Science	a) Intellectual History b) Political Thought & Thinkers (Indian and Western) c) Politics in India (Cultural, Ethnicity, Elections, Emerging Issues) d) Urban/Heritage Politics e) Democracy and Civil Society

	<ul style="list-style-type: none"> <li>f) State Politics</li> <li>g) India's International Relations</li> <li>h) Act East Policy</li> <li>i) Indo-Pacific</li> <li>j) Public Policy</li> <li>k) Labour &amp; Work</li> </ul>
<b>Hindi</b>	Open
<b>Sociology</b>	Open
<b>Chemistry</b>	Open
<b>Geology</b>	<ul style="list-style-type: none"> <li>a) Paleontology, biogeochemistry, Geophysics, Sedimentology, Structural Geology, Metamorphic petrology, Geodynamics, Remote Sensing &amp; GIS, Geoaerchology, Ore Geology, Planetary science (General-13)</li> <li>b) Paleontology, Sedimentology, Structural Geology, Planetary science (SC-2, OBC B-1)</li> </ul>
<b>Physics</b>	<ul style="list-style-type: none"> <li>a) Physics of the Early Universe, Gravitational Waves(1)</li> <li>b) Ion-Solid interaction (1)</li> <li>c) Experimental Gamma Ray Spectroscopy (1)</li> <li>d) Biomass derived hybrid for energy storage devices (1)</li> <li>e) Photo catalyst for degradation of toxic industrial effluent (1)</li> <li><b>f) Any branch/ area of Physics</b></li> </ul>
<b>Life Sciences</b>	<ul style="list-style-type: none"> <li>a) Plant Developmental Biology(1)</li> <li>b) Epigenetic regulation in plant stress conditions, host-pathogen interactions(1)</li> <li>c) Molecular Virology(1)</li> <li>d) Engineering photoreceptors for light-regulated DNA binding(1)</li> <li>e) Molecular endocrinology, cell biology(1)</li> <li>f) Molecular Plant-Pathogen Interactions, Interdisciplinary Sciences(2)</li> <li><b>g) Any branch of Life Sciences(7)</b></li> <li>h) Cancer Immunology, Cancer cell Signaling(2)</li> <li>i) Microbiology, Neurophysiology(1)</li> <li>j) Cancer Proteogenomics(2)</li> <li>k) Microbiology/Bioremediation(1)</li> <li>l) Bacterial stress response and genome integrity(1)</li> <li>m) Cancer Molecular Biology(2)</li> <li>n) Collective cell migration(1)</li> </ul>
<b>Economics</b>	<ul style="list-style-type: none"> <li>a) Development Economics</li> <li>b) Health Economics, Gender Economics</li> <li>c) Resources and Environmental Economics</li> <li>d) Labour Economics</li> <li>e) Social Network Analysis</li> <li>f) Political economy</li> </ul>
<b>Mathematics</b>	<ul style="list-style-type: none"> <li>a) Geometric and Analytic Group Theory</li> <li>b) Finite Group Theory, Graph Theory</li> <li>c) Operations Research</li> <li>d) Qualitative Theory of ODEs</li> <li>e) Complex Analysis</li> <li>f) One variable real and holomorphic dynamics</li> <li>g) Lie groups, Lie algebras and Representation Theory</li> </ul>

	<ul style="list-style-type: none"> <li>h) Cryptography</li> <li>i) General Relativity</li> <li>j) Theoretical and Observational Cosmology</li> <li>k) Differential Equations and Dynamical Systems</li> <li>l) Fractal Geometry</li> <li>m) Operator Algebra</li> <li>n) Functional Analysis.</li> </ul>
<b>Geography</b>	<ul style="list-style-type: none"> <li>a) Hydrology/ Fluvial Geomorphology (General -1)</li> <li>b) Tectonic Geomorphology and Fluvial Landforms (General -1)</li> <li>c) Agriculture Geography (General -1)</li> <li>d) Climatology/Soil (OBC A-1)</li> </ul>
<b>Statistics</b>	<ul style="list-style-type: none"> <li>a) Nonparametric Inference,</li> <li>b) Statistical inference on manifold data,</li> <li>c) Test of hypothesis under curved exponential family,</li> <li>d) Robust Bayesian Inference,</li> <li>e) Sequential Design,</li> <li>f) Survival Analysis,</li> <li>g) Mathematical Design and Analysis of Clinical Trials and any suitable area/ topic,</li> <li>h) Analysis of spatial and spatio-temporal data</li> </ul>
<b>Institute of Health Sciences (Newtown Campus)</b>	<ul style="list-style-type: none"> <li>a) Molecular Virology (2)</li> <li>b) RNA biology (1)</li> <li>c) Neurobiology and epigenetics (1)</li> <li>d) Nanoparticle-based drug delivery, bio-imaging and immunodiagnosis (1)</li> <li>e) Bacterial biofilm (1)</li> <li>f) Cancer biology and epigenetics (1)</li> <li>g) Biomaterials and Tissue Engineering (1)</li> <li>h) Plant Biology (2)</li> <li>i) Neuroimmunology of viral infection (1)</li> <li>j) Hepatitis C virus induced liver pathogenesis (2)</li> <li>k) Green synthetic organic chemistry and supramolecular chemistry (2)</li> </ul>
<b>Astrophysics</b>	<ul style="list-style-type: none"> <li>a) Cosmic Microwave Background</li> <li>b) Large Scale Structure</li> <li>c) Galaxy Evolution</li> <li>d) Numerical Simulations</li> <li>e) Active Galaxies</li> <li>f) Multi-wavelength Astronomy</li> <li>g) High Energy Astrophysics</li> </ul>

**\*\* Note:** Number and/ or Category, mentioned within parenthesis against any research area, represents number of vacancy under the specified category (if any) for the specified research area.

### E. Selection Procedure

All applicants are required to upload a research proposal within 500 words. Applicants may be shortlisted by the department/school/institute based on the research proposals/area of availability of guide in the proposed research areas and other academic criteria. All eligible candidates will have to appear at test and interview / interview, conducted by the Departmental Ph.D. Selection Committees of the University. In interview, the candidates will be expected to discuss their research interests. Following the selection procedure, a list of qualified candidates (preferably mentioning

their areas of research interest(s) will be published and displayed by the University through the official website. Candidates selected for the Ph.D. Programme will be attached to the respective Department/ School/ Institute at the time of their provisional admission and will be required to enroll on payment of a non-refundable fee, determined by the University.

**Sd/-**  
**Secretary, Faculty Councils, Presidency University**