St. Xavier's College (Autonomous), Kolkata

Advertisement for Admissions to Ph.D. Programs 2024

In the **Post- Graduate and Research Departments** of

(Physics/Microbiology/Biotechnology/Computer Science/Bengali/Commerce/Political Science/English/Economics)

Applications are invited for admissions to the Ph.D. Programs in the Post- Graduate and Research Departments of **(Physics / Microbiology / Biotechnology / Computer Science /Bengali/Commerce/Political Science/English/Economics**) at St. Xavier's College (Autonomous), Kolkata, affiliated to the University of Calcutta, in the prescribed format to be filled in **ONLINE** from the College website at https://www.sxccal.edu/

Essential Qualification :

Physics:	**CSIR NET /SET/ GATE Qualified in Physics with valid NET/SET/GATE Score.**
Microbiology:	**CSIR NET /SET/ GATE Qualified in approved all branches of Life Sciences with valid NET/SET/GATE Score.**
Biotechnology:	**CSIR NET /SET/ GATE Qualified in approved all branches of Life Sciences with valid NET/SET/GATE Score.**
Computer Science:	**UGC NET Qualified in Computer Science with valid NET/SET/GATE Score or M.Tech. in Computer Science with at least 55% mark from a UGC recognized University.**
Bengali:	**UGC NET/SET Qualified in Bengali with valid NET/SET Score.**
Commerce:	**UGC NET/SET Qualified in Commerce/Management with valid NET/SET Score.**

Political Science:	UGC NET/SET Qualified in Political Science with valid NET/SET Score.
English:	**UGC NET/SET Qualified in English with valid NET/SET Score.**
Economics:	**UGC NET/SET Qualified in Economics with valid NET/SET Score.**

RELEVANT INFORMATION

The University Grants Commission (UGC), to help the students with one national entrance test as part of implementation of National Education Policy (NEP) 2020, has decided vide its Public Notice dated March 27, 2024, that score of National Eligibility Test (NET) conducted by UGC and CSIR can be used by the Universities/HEIs for Ph.D. admission in place of entrance test.

Accordingly, St. Xavier's College has decided to use **NET/SET/GATE** score in place of the RET for admission to Ph.D. programmes in the College for the **Academic Session 2024-25.**

The salient features of admission to Ph.D. programmes in the College are summarized as under:

1. Applications for admission to Ph.D. programmes in the College will be invited from eligible candidates under following categories:
i. JRF qualified category (Category 1) only.
ii. NET/SET Score categories (Category 2): Candidates qualified for Assistant Professorship without JRF.
iii. Category 3: Candidates neither qualified for JRF nor for Assistant Professorship but eligible for admission to Ph.D. only on the basis of NET score.

2. Admission under JRF Category will be done as per existing norms where 100% weightage will be assigned to viva-voce. However, candidates with valid **JRF/GATE s**core will be also eligible to apply under NET score categories.
3. Admission under **NET/SET** Score Categories will replace the RET.

4. The weightage for NET/SET Score and interview performance will be 70% and 30% respectively for Category 2 and Category 3 respectively.

5. The validity of JRF will be as mentioned in the JRF award letter.

Procedure:

→Online Application Forms will be available at college website,

www.sxccal.edu →**Filled in Application forms will be submitted online.**

→Payment of Rs.1000 will be made online.

→All scanned photocopies and self-attested copies of mark sheets. certificates and **NET/SET/GATE SCORE CARDS** to be submitted along with the application. Incomplete applications are liable to be cancelled.

Vacancy List of Scholars– Department Wise

Departments	Research Areas of Interests	Vacancy of Scholars
Biotechnology	Life Sciences (Any Branch) with experience/interest in Field work and sampling [Potential candidates should have their own fellowships (CSIR/DBT-BET/ICMR_NET/DST INSPIRE) - Other costs will be borne from various collaborative and intramural grants of the PI]Biochemistry/ Computational Biology	4
Bengali	Nineteenth Century Bangla Literature & Culture Bangla Periodicals in Colonial Bengal Family History & Life Writing A. Book Related • History of Bengali Book Publication. • Book Making Software • Bengali Book Productions. B. Literary Theory • Western Literary Theory (Ancient and Modern) • Indian Literary Theory • Modern trends in Literary Theory. C. Linguistic • Historical Indian Linguistic. • Social Language and Literature trend through linguistic study. D. Art • History of Indian Art • History of Western Art • Art and Culture through Literature. • Basic Art theory. E. Cinema • History of Bengali Cinema • Critical appreciation of Bengali Cinema F. Critical Analysis and Appreciation of Literary work Other Areas • Historiography of Bengali Literary	8

	History. • Cultural and Political aspects of Modern Bengali Novel and Short stories. • Ecological Problem and Modern Bengali literature • Partition literature of Bengal • Bengali poetry, specifically from post-independence era to contemporary time. • The poetry written by women in the 19th and 20th centuries. • Post-independence women's poetry • The role of Little Magazines in literature. • Eco-criticism and its reflection in contemporary literature. • Feminist approaches in contemporary literature.	
Microbiology	Botany/Microbiology Biochemistry, Microbiology, Physiology Microbiology, Plant Biochemistry, Plant genomics, stress physiology, Botany	4
Physics	Pattern Formation, Soft Matter Physics, Characterisation of Flow Systems Mathematical Modelling in Interdisciplinary Areas and Pattern Formation in Nature Astroparticle Physics and Cosmology	4
Computer Science	Signal Processing, Image ,Processing, Soft Computing	2

Commerce	Management-Marketing (Advertising) Accounting and Finance Sustainable Tourism Research Areas (not limited to): • Society 5.0 and SDG 2030 • Impact of Artificial Intelligence • Use of Data Mining / Analytics on any domain like Marketing/Human Resource/Supply Chain/Sports/Business • Digital Transformation/Digital India / InDEA 2.0/Digital Economy • Gender Digital Divide/Women Empowerment through ICT • Green Computing for Sustainable Business Solutions: Marketing/Entrepreneurship/Agriculture • FinTech Solutions • Disruptive Technologies for Societal Benefits • Forecast Models for Consumer Behaviour Prediction • Consumer behaviour, promotion strategy, segmenting-targeting-positioning strategy, promotion strategy, organisation behaviour, supply chain management, advertising, human resource management, management, motivation, leadership, sustainable marketing, sustainable development, packaging • Green marketing, social marketing, neuro marketing, Service marketing, Servicescape.	8
Political Science	Political Economy, Indian Politics, Gender and politics, Political Thought, International Relations, Area Studies, Public Administration, Public Policy.	4
Economics	Environmental Economics, Behavioural Economics, Microeconomics, Micro Econometrics Macroeconomics, Econometric Modelling, Input- Output Economics, Managerial Economics. Development Micro Economics, Financial Economics, Gender and Urban Economics and Health Economics. Development Macroeconomics.	8

English	Nineteenth and Twentieth-Century Women's Poetry; Modernist Poetry; Literature and the Visual Arts. Literature and Mental Illness, Ecocriticism and War Literature	3

Information:

- The SoP (in **PDF form**) has to be submitted ONLINE along with the online application.
- NAME OF PDF FILE: **FIRST NAME_SUBJECT**

Structure of Statement of Purpose (SoP)	
Format of SoP	**Times New Roman; Font: 12; Spacing: 1.5** **Word Limit: 1000 words.**
Name of Applicant and Proposed Title to be Given on the Cover Page	
Section 1	Introduction
Section II	Review of Literature
Section III	Research Gap and Proposed Research Question
Section IV	Proposed Research Objectives
Section V	Proposed Research Methodology
Section VI	References

Candidates applying for Ph.D. Programs in BENGALI may upload their SoPs in BENGALI VERSION within the word limit of 1000 words.

Important Dates:

Applications for Ph.D. Programs with Statement of Purpose (SoP) to be submitted ONLINE latest by: 10th DECEMBER 2024.

List of Eligible Candidates Called for Interview to be published on College Website on 14th DECEMBER 2024.

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