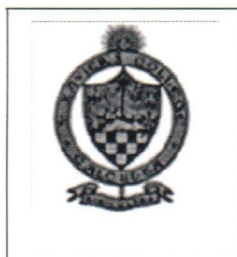




Ref No: Ph.D./Admissions/2025-26



St. Xavier's College (Autonomous), Kolkata

Advertisement for Admissions to Ph.D. Programs 2025-26

**In the Post- Graduate and Research Departments of
(Physics/Microbiology/Biotechnology/Commerce/
Economics)**

Applications are invited for Admissions to the Ph.D. Programs in the Post- Graduate and Research Departments of (Physics / Microbiology / Biotechnology / Commerce/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 /GATE Qualified with Fellowship 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.
- Commerce:** UGC NET/SET Qualified in Commerce/Management with valid NET/SET Score.

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PH.D. COORDINATOR

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Kolkata

[Signature]
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Economics: UGC NET/SET Qualified in Economics with valid NET/SET Score.

RELEVANT INFORMATION

- Applications for admission to Ph.D. programmes in the College will be invited from eligible candidates under following categories:
 - JRF qualified category (Category 1) only.**
 - NET/SET Score categories (Category 2): Candidates qualified for Assistant Professorship without JRF.**
 - 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.**
- Admission under JRF Category will be done as per existing norms where 100% weightage will be assigned to viva-voce.
- There will be no Research Entrance Test Examination.
- 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.

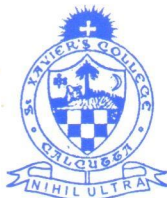
Information:

- Kindly refer to the structure of the **Statement of Purpose (SoP)** given below and prepare it accordingly. **Any other structure of SoP will not be considered.**
- The **Statement of Purpose (in PDF form)** has to be submitted **ONLINE** along with the online application.
- The **Statement of Purpose (in PDF form)** submitted **ONLINE** along with the online application is considered to be **FINAL**.

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PH.D. COORDINATOR

Principal
St. Xavier's College
(Autonomous)
Kolkata

J. Majumdar
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- Any further changes/modifications/alterations in Statement of Purpose after submission in ONLINE MODE in PDF format will not be considered.
- NAME OF PDF FILE: NAME OF APPLICANT_SUBJECT

Structure of Statement of Purpose	
Format of Statement of Purpose	Times New Roman; Font: 12; Spacing: 1.5 Word Limit: 1000 words.
Name of Applicant and Proposed Title to be stated on the Cover Page	
Section I	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

Important Dates

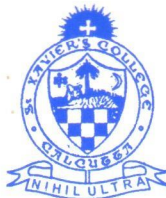
Items	Timelines
Filled in ONLINE Application Forms with Statement of Purpose (SoP) to be submitted	15.09.2025
Selection Interview to Begin Department wise (Date and time to be communicated over mail)	16.09.2025
Publication of Selection List (Department wise)	27.10.2025 onwards

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Ref No: Ph.D./Admissions/2025-26

Vacancy of Scholars (Ph.D. Admissions 2025-26)

Department	Broad Areas of Research	Vacancy of Scholars
PHYSICS	1. Reactive flow in fracture induced by volume expansion of mineral containing rocks - simulation study.	02 Should have qualified CSIR/UGC NET JRF or other exams and must join with own fellowship
	2. Understanding fluid flow through desiccation patterns left by drying droplets on substrates of different rigidity.	
PHYSICS	3. Decoding motion of motile bacteria in drying droplets when exposed to external stimuli via experiment and simulation.	02 Should have qualified CSIR/UGC NET JRF or other exams and must join with own fellowship
	Relativistic Gravity; Astrophysics	

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Vacancy of Scholars (Ph.D. Admissions 2025-26)

Department	Broad Areas of Research	Vacancy of Scholars
ECONOMICS	Environmental Economics, Behavioural Economics	01
	Development Economics, Financial Economics, Health Economics	01
	Macro Economics, Input- Output Analysis, Econometrics	01
	Development Economics with focus on Gender Gap Issues	01

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Ph.D. Coordinator

J. Junior
Principal
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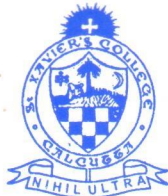
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Vacancy of Scholars (Ph.D. Admissions 2025-26)

Department	Broad Areas of Research	Vacancy of Scholars
COMMERCE	Accounting and Finance	02
	Consumer Behaviour; Brand Management	01
	Marketing, Advertising	01
	SDGs; Digital INDIA 2.0 / INDIA@2047; Society 5.0 / Education 5.0 / Agriculture 5.0; AI in Marketing / HR / Finance / Business; Digital Twin Economy; Metaverse Marketing / Neuromarketing; Analytics on Marketing / HR / Finance/ Gender; Green Business Models in Gig Economy.	02
	Sustainable Tourism	01
	Marketing, Management, Human Resoures, Supply Chain Management, Consumer Behaviour, Services Marketing, Advertising, Rural Marketing.	01

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Vacancy of Scholars (Ph.D. Admissions 2025-26)

Department	Broad Areas of Research	Vacancy of Scholars
BIOTECHNOLOGY	Computational Biology, Genomics, Natural Product-Based Drug Discovery, Gut Microbiome-Metabolome Axis.	02 [Genomics and NGS Data Analyses; Should have qualified CSIR/UGC NET; DBT/ICMR JRF or other exams and must join with own fellowship]
	Food Microbiology, Environmental Microbiology, Medical Microbiology (with a sound knowledge on basic Microbiological, Biochemical, Molecular Biological and Bioinformatics techniques)	01
	Research focus involves deciphering the genetic and epigenetic basis of molecular signalling during developmental pathways and stress response	01 (Scholar to be supported by Project)
	Cancer Biology	01
	Biochemistry and Computational Biology	02 (Scholar to be supported by Project)
	(1) Structural insights into the transcription regulations of pathogenic bacteria. (2) Structural insights into the ABC transporters of pathogenic bacteria.	02 Should have qualified CSIR/UGC NET; DBT/ICMR JRF or other exams and must join with own fellowship]

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Ph.D. Coordinator

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Ref No: Ph.D./Admissions/2025-26

Vacancy of Scholars (Ph.D. Admissions 2025-26)

Department	Broad Areas of Research	Vacancy of Scholars
MICROBIOLOGY	Environmental and Agricultural Microbiology	02 [Project : DBT Builder]
	Isolation of Antibiotic resistant bacteria from environmental isolates	01

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Vacancy of Scholars (Ph.D. Admissions 2025-26)

Department	Broad Areas of Research	Vacancy of Scholars
MICROBIOLOGY	Plant Biotechnology and Microbiology	01

Samrat Roy.

Ph.D. Coordinator
ST. XAVIER'S COLLEGE (Autonomous)
30, Mother Teresa Sarani
Kolkata-700 016