

## **St.Xavier's College(Autonomous), Kolkata**

### **Advertisement for admission to Ph.D. Program 2018 in (Physics/Microbiology/Biotechnology/Commerce)**

Applications are invited for admission to the Ph.D. program in the Departments of (Physics/Microbiology/Biotechnology/Commerce), St.Xavier's College (Autonomous), Kolkata, affiliated to the University of Calcutta, in the prescribed proforma downloadable from the College website at [//www.sxccal.edu](http://www.sxccal.edu). For further details, please visit the college website:[www.sxccal.edu](http://www.sxccal.edu)

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*The details below appear in the SXC website under link from appropriate announcement for RET*

**Essential qualification:** (M. Sc/M.Com) in (Physics/Microbiology/Biotechnology/Commerce)

#### **Eligibility:**

- Candidates with at least 55% marks in (Physics/Microbiology/Biotechnology/Commerce) at the (M.Sc./M.com.) level from the College or from any other UGC recognized university are eligible to take the examination in the related stream.
- The candidate has to have either NET/ SET/ INSPIRE/ MPhil (from any recognized university with 2-semester/ 1-year course work) or has to qualify in the research entrance test (RET) conducted by the department.
- Those who are expected to obtain MPhil in (Physics/Microbiology/Biotechnology/Commerce) from any UGC recognized university by August 31, **2018** would also be exempted from RET and be eligible to appear directly in the interview.
- Those who have qualified in NET/SET/INSPIRE or already obtained M.Phil. degree would be exempted from the examination. They may directly submit a statement of purpose (SoP) indicating the area of research interest (not exceeding 1000 words) and appear in the interview.

#### **Procedure:**

- The completely filled application form along with a bank draft of Rs.1000/- only drawn in favour of St.Xavier's College is to be submitted to the Ph.D. Cell, St.Xavier's Colle, Kolkata, by the last date mentioned.  
**Office Hours:** 10 A.M.-1.00 P.M., and 2.00P.M. – 4.00P.M. (on all weekdays)  
10 A.M.-12.00 Noon (Saturday)
- All Xerox and self-attested copies of mark sheets and certificates to be submitted along with the application. Incomplete applications are liable to be cancelled.
- The Research Eligibility Test (RET) of 100 marks for the suitable candidates will be held once a year and the qualifying marks will be fixed at 50%.
- The RET syllabus for every department is available in the corresponding department site.
- The maximum number of candidates enrolled this year (**2018**) depending on their success at the written examination and interview will be in:

**Physics: Five (5)**

**Dr. Tapati Dutta-(2)** Soft Matter , Statistical Physics, Fluid Dynamics

**Dr. Sarbari Guha (2)** Cosmology, General Relativity, Relativistic Astrophysics

**Dr. Shubhankar Ghosh (1)** Condensed Matter Physics and nanomaterials

**Microbiology: Five (5)**

**Dr Arup Kumar Mitra (2)** Biofertilizer and biopesticide, Active principals from Mangrove plants and their therapeutic/anticancer use

**Dr. Anindita Banerjee (1)** Reproductive biology of Mangrove trees

**Dr. Mahashweta Mitra Ghosh (2)**

- i. Identification of Major Pathogenic Microbes in Hospital Effluents Using Metagenomic Screening And Design of Potent Inhibitors using Virtual Screening of Medicinal plant library against them.
- ii. Investigation of Shigella phage diversity and it's genomics from environmental water samples of in and around Kolkata, West Bengal

**Biotechnology: Four (4)**

**Dr. Dipankar Chakraborti**

(1- only with fellowship)

**Topic-** Biotic stress in plants / Stress Biology in plants

**Dr. Chandana Barat**

(1- only with fellowship)

**Topic-** Protein folding, aggregation and the ribosome

**Dr. Jhimli Dasgupta**

(1- only with fellowship)

**Topic-** Elucidating the mechanism of flagellar gene transcription through X-ray crystallography

**Dr. Ronita Nag Chaudhuri**

(1- with GATE or NET-LS/CSIR fellowship)

## **Topic-Mechanism of chromatin regulations during DNA damage repair**

### **Commerce: Three (3)**

**Dr. Amitava Roy (1)** -Accounting and Finance

**Dr. Soheli Ghosh (1)** - Accounting and Finance

**Dr. Sumana Guha (1)** -Management

### **Structure of the Examination:**

- Only multiple choice questions
- The details of the syllabus is available in the College Website under the corresponding Department's RET Syllabus
- The eligible candidates identified through RET/ NET/ SET/ MPhil/INSPIRE, will have to submit statement of purpose (SoP) indicating the area of research interest (not exceeding 1000 words) on which a final interview will be conducted.
- The SoP has to be submitted at the time of application itself.
- Those who are expected to obtain M.Sc./M.Com. in **(Physics/Microbiology/Biotechnology/Commerce)** from any UGC recognized university by August 31, **2018** would also be eligible to apply for RET. However, the final selection of these candidates would be contingent on their obtaining at least 55% of marks in aggregate in their M.Sc./M.Com. examination from the College, or any other UGC recognized university.
- The list of finally selected candidates would be posted in the Departmental Notice Board and in the College website;

### **Important Dates:**

- Forms can be downloaded from the College website from: **April 29, 2018 (Sunday)**
- Application for Ph.D. program including that for the Research Entrance Test (RET) with SoP to be submitted by: **May 10<sup>th</sup>, 2018 (Thursday)**.
- List of eligible candidates for RET/ Direct Interview: **May 11<sup>th</sup>, Friday on College Website and Ph.D. Cell , St.Xavier's College.**
- Date of RET Examination: **May 14<sup>th</sup>, 2018 (Monday), 12.00 Noon** in the **R.K.Hall, St.Xavier's College**
- Date of Publication of RET Result and List of candidates for final interview: **May 16<sup>th</sup>, 2018 (Wednesday) on College Website and Ph.D. Cell , St.Xavier's College.**
- Date of final Interview: **22.5.2018, (Tuesday)** from **11.00.A.M.** in the **R.K.Hall, St.Xavier's College**

***Please bring the receipt of the payment of Rs.1000/- , along with a photo identity card (passport/Aadhar/PAN) at the RET examination and/or Interview.***

