



Ramakrishna Mission Residential College (Autonomous)



Narendrapur, Kolkata 700 103, West Bengal, India

Autonomous College affiliated to University of Calcutta

Re-accredited by NAAC with 'A'

Website: www.rkmrc.in ; Email: rkmcpur@gmail.com; Phone: 033-2477 2201/2/3/2477 2205

VIVEKANANDA CENTRE FOR RESEARCH

A University of Calcutta recognized Research Centre

Advertisement for Ph.D. programme in Physics.

APPLICATIONS ARE INVITED FROM ELIGIBLE CANDIDATES
(MALE ONLY) WILLING TO PURSUE PH.D. COURSE IN PHYSICS.

Details of the Admission Procedure

Total Seat (including all categories)	5 Approximately.
Date and Time of Issue and Submission of Application Forms	19 th April, 2021– 4 th May, 2021. (Except Saturday, Sunday and other Holidays) ; Time: 11am - 12 pm.& 3 pm.-4 pm.
<ul style="list-style-type: none">Application Form is available on the college website: www.rkmrc.in or it can be collected from the VCR office at Ramakrishna Mission Residential College, Narendrapur.A scanned copy of the filled out application in pdf format and the application fee payment receipt should be emailed to vcr.rkmrc@gmail.com. Only these two attachments are allowed in the email. The method for the online payment of application fees of Rs 1000/- is as follows:<ol style="list-style-type: none">Click on the link https://www.eduqfix.com/PayDirect/#/student/pay/a1mALBny0LiBM+TN14hpv7IS9d5tWVei2s5Ifp1CD+4cmr6gJUEMcucc11zJq8ZC/4903After you click the link, please choose Application Fee under the 'Select the Option' then enter your mobile no. and click on Search button.	

- iii. A new user will be asked to fill a form. Choose **PhD** under 'Programme' and type **Physics** under 'Subject'. After filling out your email click the submit button.
- iv. Put a tick mark on the left-most box (next to the + sign) and enter Rs.1000 in the rightmost field, then proceed for payment.
- v. Download the receipt after the payment and email it to us along with your application.

(for necessary information, contact: Swami Purnamayananda, Mobile: +91 9475485615)

Date of Research Entrance Test (RET)	12th May 2021 , Wednesday, 11:30 am. -2:30 pm.
Date of Publication of Result of RET - Written	19th May 2021 Wednesday , 10 am. (please see website for further details)
Date of Viva-voce	24th May 2021, Monday , 11am.

Reservation : As per Government rules

Eligibility : 55% marks in Master's Degree in Physics or Electronics in Science, Engineering or Technology from a UGC recognized University / Institution. [5% relaxation for reserved categories]

Procedure of Admission:

1. Candidates have to appear in a Research Entrance Test (RET) and/or Viva-voce.
2. There will be 1 paper at the Research Entrance Test (RET-VCR) Syllabus, question paper pattern, marking system will be same as CSIR-NET(Full marks 200)
3. Candidates, who qualify in the written examination, will be called for the Viva-voce (Marks 50).
4. Candidates who have qualified CSIR-NET / SET will be exempted from written test (i.e. RET-VCR) and will directly appear in the Viva-voce.

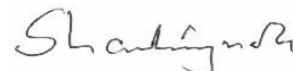
5. Those who have completed M.Phil. Course according to UGC (Minimum Standards & Procedure for award of M.Phil. / Ph.D. Degree) Regulations 2016, are exempted from the Written Test and will appear directly in the Viva-voce.
6. Candidates must bring their original documents of Educational qualification & other testimonials at the time of Viva-voce.
7. The decision of the Departmental Doctoral Committee will be final under all circumstances.
8. If the departmental Doctoral Committee sees that suitable candidates are not found after the RET-VCR and/or Viva Voce, seats may remain vacant even after the admission procedure is over.

9. Areas in Physics where research scholars will be recruited:

- a) High Energy Physics (Experimental) QCD, QGP, Heavy Ion Physics, Collider Physics in STAR/sPHENIX or future EIC experiment at RHIC, BNL, NY, USA. Applicants should hold or be about to obtain a Master degree in Physics or Engineering Physics with excellent background on particle physics and be highly motivated to work in an international research environment. Familiarity with computer programming (especially C++ and/or Python) is desirable and analysis software frameworks like ROOT will be an advantage. Visit to BNL will be possible depending on the availability of funds.
- b) Non-conventional (non-thermal, light, warm etc.) Dark Matter (DM) physics, connection to DM direct and indirect detection experiments. Non-standard neutrino phenomenology. The applicant should have some knowledge on Quantum Field Theory (QFT), sound background in Particle Physics and good computing skills, namely in C++ and/or Python programming.
- c) Printed and Flexible electronics devices for energy harvesting and other applications. Some experience on electrical devices and hard ware will be an advantage.

Note : Candidate must bring their original Photo ID proof (issued by competent Authority) during Research Entrance Test & Viva-voce.

Narendrapur
Date: 19.04.2021


Principal