



Ramakrishna Mission Vivekananda University

(Decl. by Govt of India under Sec 3 of UGC Act, 1956)

PO Belur Math, Dt Howrah, West Bengal, India 711202

SCHOOL OF MATHEMATICAL SCIENCES

DEPARTMENT OF PHYSICS

Paste
Self Attested
passport size
photograph

Application Form for Admission to M.Sc. Programme in Physics 2016¹

■ FULL NAME : _____
(in block letters)

■ FATHER'S NAME : _____
Father's Mobile : _____

■ MOTHER'S NAME : _____
Mother's Mobile : _____

■ RESIDENTIAL ADDRESS : _____

Nearest Police Station : _____
STATE PIN COUNTRY

■ CONTACT NO. : _____
PHONE MOBILE

■ EMAIL : _____

■ DATE OF BIRTH : _____
Day Month Year

■ GENDER (Male/Female) : _____

■ CATEGORY (Gen/SC/ST/OBC) : _____

APPLICATION FEE PAID

By cash

through Demand Draft

Demand Draft Details :

Amount

Demand Draft No

Date

Bank & Branch

Turn over

¹Photocopies of this form or copies downloaded from the university website (<http://phy.rkmvu.ac.in/>) are acceptable.

■ ACADEMIC RECORDS:

FULL NAME : _____

1. B.Sc. OR EQUIVALENT EXAMINATION*

(a) NAME & ADDRESS OF COLLEGE/INSTITUTION : _____

(b) NAME OF UNIVERSITY : _____

(c) YEAR OF PASSING/APPEARING FINAL EXAMINATION : _____

(d) TOTAL % OF MARKS / GPA OBTAINED

(Note: Those appearing at the final examination during the current year should give the total % of marks taking into account the exams held so far)

TOTAL % OF MARKS/GPA OBTAINED IN <u>PHYSICS (HONOURS/MAJOR)</u> IN B.Sc. EXAMINATION	
TOTAL % OF MARKS/GPA OBTAINED IN <u>MATHEMATICS(GEN)</u> IN B.Sc. EXAMINATION	

(e) BREAK-UP OF MARKS

	% Physics (Honours/Major)			% Mathematics
	% Theory	% Practical	% Theory+Practical	
Part I or Sem I Sem II				
Part II or Sem III Sem IV				
Part III or Sem V Sem VI				

2. PREVIOUS ACADEMIC RECORDS*

	Class X or Equivalent Examination	Class XII or Equivalent Examination
NAME OF EXAMINATION		
NAME OF BOARD		
NAME OF SCHOOL/ INSTITUTION		
YEAR OF PASSING		
TOTAL % OF MARKS/ GPA OBTAINED		

* Enclose photocopies of B.Sc. (or equivalent), Higher-secondary(Plus Two) and Secondary (Madhyamik) mark-sheets.

Declaration by the applicant: Certified that all information provided by me in this form is correct to the best of my knowledge and belief. I understand that any wilful misrepresentation of facts will result in my dismissal from the university.

Undertaking: This is to undertake that having thoroughly read the rules and regulations in the admission notice as given in the website, I agree to abide by all of them, in letter and spirit, if admitted to the University.

COUNTERSIGNED BY PARENT/GUARDIAN WITH DATE

SIGNATURE OF STUDENT WITH DATE

USEFUL INFORMATION

(Please do not submit this page with application form)

- Photocopies of the application form or copies downloaded from the University website (<http://phy.rkmvu.ac.in>) are acceptable.
- The Admit Card with the self attested photograph must be retained by the candidate and should be produced at the time of the entrance examination.
- Photocopies of B.Sc., Higher-Secondary (Class XII) and Secondary (Class X) mark-sheets must be enclosed with the application form.
- SUBMISSION OF APPLICATION FORM

Application forms completed in all respects should be submitted on or before 5 March 2016 (Saturday) either in person at the University Office in Belur Main Campus (office hours: 10 am to 5 pm) or sent by post to the address given below. At the time of submission of completed applications, a fee of Rs.300/- should be paid in cash if the submission is in person. If sent by post, the application should be accompanied by a Demand Draft for Rs.300/- drawn in favour of 'Ramakrishna Mission Vivekananda University' payable at Belur Math, Howrah, preferably UBI or SBI.

Please write on the top of the envelope containing the application form: "M.Sc. Physics Admission 2016".

Address to which the applications should be sent:

Registrar
Ramakrishna Mission Vivekananda University
Belur Math, Howrah 711202
West Bengal

- ENTRANCE EXAMINATION The entrance examination will be held at the main campus of Ramakrishna Mission Vivekananda University at Belur Math, Howrah 711202, West Bengal. Candidates will be examined in the following subjects in Physics: classical mechanics, quantum mechanics, statistical mechanics, thermodynamics, special relativity, mathematical methods and electrodynamics. The pattern of questions: short type to test conceptual clarity and/or simple problems.

Model/sample questions have been uploaded in our website to enable the candidates have a feel of what the admission test question paper would be like. List of candidates selected for the M.Sc. programme in Physics will be put up on The entrance examination will be held at the main campus of Ramakrishna Mission Vivekananda University at Belur Math, Howrah 711202, West Bengal. Candidates will be examined in the following subjects in Physics: classical mechanics, quantum mechanics, statistical mechanics, thermodynamics, special relativity, mathematical methods and electrodynamics. The pattern of questions: short type to test conceptual clarity and/or simple problems. Some sample questions are given below:

- What are the forces acting on a particle described by the Lagrangian $L = \frac{1}{2}m(\dot{x}^2 - \omega^2 x^2)e^{\gamma t}$ (ω^2 and γ are positive constants)? Write down the Hamiltonian for this system.
- A relativistic particle of mass m_0 and velocity $v = (4/5)c$ collides inelastically and fuses with an identical particle at rest. What are the velocity and the mass of the composite particle so formed ?
- Estimate the energy of electrons that we need to use in an electron microscope to resolve a separation x .

Venue of Admission Test:

Belur Main Campus (just at the entrance of Belur Math)
Ramakrishna Mission Vivekananda University
Belur Math, Howrah 711202, West Bengal

Date and Time of Examination:

12 March 2016 (Saturday)
2:00 pm - 5:00 pm (3 hours)

Students from outside West Bengal desiring to appear for the written admission test in venues near their places of residence may send a separate request by email to: phy.rkmvu@gmail.com. Arrangements will be made as far practicable to conduct their exams in the Centres of Ramakrishna Mission nearest to their place.

List of candidates selected for the M.Sc. programme in Physics will be put up on the university website <http://phy.rkmvu.ac.in/> normally towards the end of one month of the date of admission test. Candidates may look up the website accordingly.