



## **Rajiv Gandhi University of Health Sciences, Karnataka**

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### **Ph.D Entrance Exam – 2024-25**

*Brochure with Application Form for Ph. D Entrance Exam - 2024 for admission to Ph. D courses in **Medical, Dental, Pharmacy, Nursing, AYUSH, Allied Health Sciences and Physiotherapy** faculties for the academic year 2024-2025.*

**Date of Ph. D Entrance Exam – 30/04/2024**

**Examination Fee: Rs. 3000/-**

IMPORTANT:	<p><i>Please note that the candidate will not become eligible for attending the entrance Exam only by Online Registration. The candidate must ensure that print out of his/her application with all enclosures mentioned in the brochure reaches the RGHUS on or before 15/04/2024, 5.30 PM by post or in person.</i></p> <p><b>RGUHS is not responsible for any postal delay.</b></p>
<p><i>For Applying Online use the below link (Find link under Latest Events)</i></p> <p><a href="http://www.rguhs.ac.in">http://www.rguhs.ac.in</a></p>	

## **RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES, KARNATAKA**

Brochure containing the details of Ph. D Entrance Exam-2024 for admission to **Ph. D in Medical, Dental, Pharmacy, AYUSH, Nursing, Allied Health Sciences and Physiotherapy faculties.**

### **Ph. D Entrance Exam – 2024-25**

#### **TENTATIVE CALENDAR OF EVENTS**

<b>S1 No</b>	<b>Events</b>	<b>Dates</b>
1.	Date of Notification	24/02/2024
2.	Hosting of the Brochure and Application form on the website	05/03/2024
3.	Last date for online Payment	01/04/2024 Before 05.30 P.M
4.	Last date for receipt of print-out of applications filled online by <u>Post</u> or <u>In person</u> before 5-30 P.M at RGUHS.	15/04/2024
5.	Date of availability of Hall-Ticket for the Eligible candidates	22/04/2024
6.	Date of Entrance Exam	30/04/2024
7.	Provisional result	Second week of June - 2024
8.	Submission of preliminary Synopsis by qualified candidates	Second week of July - 2024
9.	Presentation of Synopsis before the Committee	Second week of August- 2024
10.	Commencement of Session	September - 2024

## 1. Introduction:-

Ph. D Entrance Exam -2024 is being conducted for the purpose of determining the

Eligibility for admission of students to **Medical / Dental / Pharmacy /AYUSH Nursing /Allied Health Sciences and Physiotherapy faculties** for the academic year 2024-2025.

**2. Eligibility:-** A candidate who fulfills the following criteria shall be eligible to appear for the Entrance Exam :-

- (i) He/ She is a citizen of India.
- (ii) He/ She has studied and passed in the courses leading to the award of PG degree/ diploma in respective branches recognized by respective councils/ Government of India and affiliated to any University established by Law.
- (iii) A Post graduate qualification in the concerned Specialization and faculty is a must.
- (iv) The candidate who completed his/her post graduate degrees in respective branch are eligible for that branch/subject only.

**Medical:** Candidates with M.D. or M.S or Medical P.G. Diploma, DM/MCh M.Sc. in medical subjects under Medical Faculty (3years course from a Medical College) are eligible for enrollment for Ph. D course in concerned subject only.

**Dental:** Candidates with MDS or Dental PG Diploma are Eligible for enrollment of Ph. D Course in Dentistry in concerned subjects only.

**Physiotherapy:** Candidates with a PG degree in Physiotherapy i.e., MPT degree awarded by this University or a Master's degree considered as equivalent by RGUHS are eligible for enrollment to Ph. D course in Physiotherapy.

**Pharmacy:** Candidates with M.Pharm, Pharm-D and Pharm – D (PB) degree awarded by this University or a College/University recognized by AICTE/PCI or a P.G. Degree in Pharmacy considered as equivalent by RGUHS, are eligible for enrollment for Ph. D course in Pharmacy.

### Note:

- Candidates with Pharm-D degree are eligible to register for Ph. D in Pharmacy Practice only.
- Candidates with M-Pharm in Pharmaceutics, Pharmaceutical Technology and Industrial Pharmacy are eligible to register for Ph.D in any one of the 3 subjects.
- Candidates with M-Pharm in Quality Assurance and Pharmaceutical Analysis are eligible to register for Ph. D in any one of the 2 subjects.

## **Allied Health Sciences**

### **(i) Radiation Physics:**

- (a) Candidates with M.Sc in Radiation Physics/MSc Radiotherapy awarded by RGUHS OR
- (b) M.Sc in Medical Physics (2 years course with one year internship) awarded by other University considered as equivalent by RGUHS OR
- (c) M.Sc Physics + One year Diploma in Radiological Physics

### **(ii) Clinical Psychology :**

- (a) Candidates with M.Sc in Clinical Psychology awarded by RGUHS (OR)
- (b) M.Sc in Clinical Psychology awarded by other University considered as equivalent by RGUHS (OR)
- (c) M.Phil in Clinical Psychology with M.Sc in Clinical Psychology .
- (d) MA/M.Sc. in psychology awarded by other university considered as equivalent by RGUHS (OR)
- (d) M.Phil. in psychology with MA/M.Sc in Biomedical sciences

### **(iii) Neuro Sciences Technology:**

- a) Candidates with M.Sc in Neuro Science Technology awarded by RGUHS (OR)
- b) M.Sc in Neuro Science Technology awarded by other University considered as equivalent by RGUHS (OR)
- c) M.Phil in Neuro Science Technology with M.Sc in Neuro Science Technology

### **(IV) Clinical Research:**

- a) Candidates with M.Sc in Clinical Research awarded by RGUHS (OR)
- b) M.Sc in Clinical Research awarded by other University considered as equivalent by RGUHS (OR)
- c) M.Phil in Clinical Research with M.Sc in Clinical Research.
- d) M.Sc. or M.Phil. in Life Sciences/Biotechnology/Zoology/ Biochemistry/ Microbiology/ Biosciences/ Biophysics/ Bioinformatics/ Biological Sciences/ Animal Sciences/ Plant Molecular Biology/ Genetics/ Neurobiology awarded by University recognized by UGC **(OR)**
- e) M. Sc. in Medical Biotechnology awarded by other University considered as equivalent by RGUHS **(OR)**
- f) M. Phil in Medical Biotechnology with M.Sc. in Medical Biotechnology **(OR)**
- g) M.Sc in Human Genomics/ Genetics awarded by other University considered as equivalent by RGUHS **(OR)**
- h) M. Phil. in Human Genomics/ Genetics with M.Sc. in Human Genomics/ Genetics **(OR)**

- i) M. Sc. in Toxicology awarded by other University considered as equivalent by  
RGUHS **(OR)**
- j) M. Phil. in Toxicology with M.Sc. in Toxicology**(OR)**
- k) M.VSc./ M.Sc. in Veterinary Sciences awarded by other University considered as equivalent by RGUHS **(OR)**
- l) M.Phil. in Veterinary Sciences with M.Sc. in Veterinary Sciences.

**(V)Medical Imaging Technology**

- a)Candidates with M.Sc in Medical Imaging Technology awarded by RGUHS  
(OR)
- b) M.Sc in Medical Imaging Technology awarded other University considered as equivalent by RGUHS (OR)
- c) M.Phil in Medical Imaging Technology with M.Sc in Medical Imaging Technology

**(VI)Public Health:**

- a) Candidates with Masters in Public Health awarded by RGUHS (OR)
- b) Masters in Public Health awarded by other University considered as equivalent by RGUHS (OR)
- c) M. Phil in Public Health with Masters in Public Health

**(VII)Renal Dialysis Technology:**

- a) Candidates with M. Sc in Renal Dialysis Technology awarded by RGUHS  
(OR)
- b) M.Sc in Renal Dialysis Technology awarded by other University considered as equivalent by RGUHS (OR)
- c) M. Phil in Renal Dialysis Technology with M.Sc in Renal Dialysis Technology.

**(VIII)Medical Laboratory Technology:**

- a)Candidates with M.Sc in Medical Laboratory Technology in Clinical Biochemistry/Microbiology and Immunology / Hematology and Blood transfusion awarded by RGUHS **(OR)**
- b)M.Sc in Medical Laboratory Technology in Clinical Biochemistry/ Microbiology and Immunology / Hematology and Blood Transfusion awarded by other University considered as equivalent by RGUHS **(OR)**
- c). M. Phil in Medical Laboratory Technology with M.Sc in Medical Laboratory Technology **(OR)**
- d) M. Sc. In Immunology awarded by other University considered as equivalent by RGUHS **(OR)**
- e) M.Phil. in Immunology with M.Sc. in Immunology **(OR)**

- f) M. Sc. in Virology awarded by other University considered as equivalent by RGUHS **(OR)**
- g) M. Phil in Virology with M.Sc. in Virology **(OR)**
- h) M. Sc. in Medical Microbiology (2 year course) awarded by other University considered as equivalent by RGUHS**(OR)**
- i) M.Phil. in Medical Microbiology with M.Sc. in Medical Microbiology **(OR)**
- j) M. Sc. in Medical Biochemistry (2 year course) awarded by other University considered as equivalent by RGUHS **(OR)**
- k) M. Phil in Medical Biochemistry with M.Sc. in Medical Biochemistry

**(IX)Perfusion Technology:**

- a)Candidates with M. Sc in Perfusion Technology awarded by RGUHS (OR)
- b) M. Sc in Perfusion Technology awarded by other University considered as equivalent by RGUHS (OR)
- c) M. Phil in Perfusion Technology with M. Sc in Perfusion Technology

**(X)Hospital Administration:**

- a) Candidates with Masters in Hospital Administration/ M. Sc in Hospital Administration awarded by RGUHS (OR)
- b) Masters in Hospital Administration/ M. Sc in Hospital Administration awarded by other University considered as equivalent by RGUHS (OR)
- c) M. Phil in Hospital Administration with Masters in Hospital Administration

**(XI)Prosthetics and Orthotics:**

- a) Candidates with M. Sc in Prosthetics and Orthotics awarded by RGUHS (OR)
- b) M. Sc in Prosthetics and Orthotics awarded by other University considered as equivalent by RGUHS (OR)
- c) M. Phil in Prosthetics and Orthotics with M. Sc in Prosthetics and Orthotics

**(XII)Echocardiography:**

- a) Candidates with M. Sc in Echocardiography awarded by RGUHS (OR)
- b) M. Sc in Echocardiography awarded by other University considered as equivalent by RGUHS (OR)
- c)M. Phil in Echocardiography with M. Sc in Echocardiography

**(XIII)Optometry:**

- a) Candidates with M. Sc in Optometry awarded by RGUHS (OR)
- b) M. Sc in Optometry awarded by other University considered as equivalent by RGUHS (OR)
- c) M. Phil in Optometry with M. Sc in Optometry

**XIV) Anaesthesia Technology:**

- a) Candidates with M.Sc in Anesthesia Technology awarded by RGUHS (OR)
- b) M.Sc in Anesthesia Technology awarded by other University considered as equivalent by RGUHS (OR)
- c) M. Phil in Anesthesia Technology with M.Sc in Anesthesia Technology

**(XV) Operation Theatre Technology:**

- a) Candidates with M. Sc in Operation Theatre Technology awarded by RGUHS (OR)
- b) M. Sc in Operation Theatre Technology awarded by other University considered as equivalent by RGUHS (OR)
- c) M.Phil in Operation Theatre Technology with M.Sc in Operation Theatre Technology.

**(XVI) Respiratory Care Technology:**

- a) Candidates with M. Sc Respiratory Care Technology awarded by RGUHS (OR)
- b) M. Sc in Respiratory Care Technology awarded by other University considered as equivalent by RGUHS (OR)
- c) M. Phil in Respiratory Care Technology with M. Sc in Respiratory Care Technology

**( XVII) Human Anatomy:**

- a) M.Sc.in Human Anatomy awarded by other University considered as equivalent by RGUHS **(OR)**
- b) M.Phil.in Human Anatomy with M.Sc. in Human Anatomy

**(XVIII) Human Physiology:**

- (a). M. Sc. in Human Physiology awarded by other University considered as equivalent by RGUHS **(OR)**
- (b)M. Phil. in Human Physiology with M.Sc. in Human Physiology

**(XIX) Forensic Sciences:**

- (a) M. Sc. in Forensic Sciences awarded by other University considered as equivalent by RGUHS **(OR)**
- (b)M. Phil. in Forensic Sciences with M.Sc. in Forensic Sciences.

**(XX) Radiotherapy:**

- (a) M. Sc. in Radiotherapy awarded by other University considered as equivalent by RGUHS **(OR)**  
(b) M. Phil. in Radiotherapy with M.Sc. in Radiotherapy.

**NOTE: Selected candidates in the entrance examination shall be considered for Provisional Registration subject to availability of RGUHS Recognized Ph D guide and RGUHS Recognized Ph D institution only**

**3. DURATION OF THE Ph.D. PROGRAMME:**

(i) The period of training for Ph.D. for full time shall be minimum of two years for candidates who possess M.D/M.S/P.G. Diploma and 3 years for candidates possessing M.Sc. in Medical subjects under Medical Faculty (3 years course from a Medical College). For part time Ph. D. programme minimum duration of three years for candidates possessing M.D/M.S/P.G.

Diploma and minimum of four years for candidates possessing M.Sc. in Medical subjects under Medical Faculty (3 years course from a Medical College). However, the maximum duration shall be 5 years both for part time and full time PhD course including course work from the date of his/her provisional registration.

(ii) The Ph.D. programme in all other subjects except those cited at 5.1 above shall be for a minimum duration of three years for full time course and five years for part time course and the Maximum duration shall be five years for full time course and seven years for part-time course including course work from the date of his/her provisional registration.

(iii) Where the candidate, Ph. D. guide and the Research department are in the same institution, the duration for part time course may be reduced to four years for all faculty except those under 5.1. However, requisition from the candidate and guide (endorsed by the Principal of the institute) stating that they are working in the same institution has to be submitted to the university after completion of the second progress report.

(iv) Where the guide and research department are from one institution and the candidate is from another institution affiliated to RGUHS, the minimum course duration for Part time Ph.D. shall be for five years. The registration of candidates for Ph. D. will not be considered, if the candidate, guide and research department are in three different places.

(v) Extension beyond the maximum duration of study may be considered by the Ph.D. Registration committee of the respective faculty on case to case basis. Only in exceptional cases, the maximum duration can be extended for one more year based on the representation submitted by the



student and the guide. This provision can be applied only with the approval of the Hon'ble Vice Chancellor.

(vi) The candidates with more than 40% disability may be allowed a relaxation of two years for Ph.D. in the maximum duration.

(vii) Women candidates may be provided Maternity Leave/Child Care Leave once in the entire duration of Ph.D. for up to 240 days. However, during the course of Ph.D. Period candidates have to make up for this lost period by working for equivalent additional period

**Note:**In case of relocation of a Ph.D. scholar due to marriage or otherwise, the **research data** shall be allowed to be transferred to the University to which the scholar intends to relocate, with prior consent of the Guide provided all the other conditions in these regulations are followed in letter and spirit and the research work does not pertain to the project secured by the parent institution/Guide from any funding agency. The scholar will however give due credit to the parent guide and the institution for the part of research already done. This relocation should be done with the approval of the Ph.D. Registration committee of the respective faculty and approval of Hon'ble Vice Chancellor.

(viii) The scholar and Guide contact period for Part time Ph. D. shall be 45 days for every 6 months. The candidate has to submit attendance certificate duly signed by the Guide and the Principal for this period through proper Channel along with every half yearly report.

(1X) Part Time facility provided for pursuing Ph. D. Programme can be availed ONLY by teaching faculty working in colleges affiliated to RGUHS and eligible candidates working in department of different Institutions/Industry/Hospitals recognized by RGUHS as Ph.D Research centres. However, a candidate intending to pursue Ph. D. as a full time research scholar should not be working in any of the institutions.

**Foreign nationals are eligible for only full time Ph. D. course.**

Such of the faculty from outside the state/University who wishes to apply for Ph D course can apply only for full time Ph. D. course.

**4. PROCEDURE FOR ADMISSION:**

(i) All the candidate intending to register for Ph.D. programme shall appear for the entrance examination conducted by the University.

(ia.) An Entrance examination shall be qualifying test with qualifying marks as 50 Percentage. The University reserves the right to lower this limit in case the number of candidates who have cleared Ph. D. entrance examination is very low. This shall be given effect to with the approval of the Hon'ble Vice- Chancellor. The exam consists of two papers, conducted over two sessions of three hours. The syllabus of the first theory paper consists of Basics of Research Methodology and will carry 50 marks.(10X5) The Second theory paper which will be subject specific, preferably with the competence of PG standard, will carry 50marks(10X5). There shall be eight questions with each questions

carrying ten marks. The candidate shall answer any five questions out of eight questions in both the papers. The marks scored by the candidate for both the papers put together will be considered for deciding the pass criteria.

If multiple candidates score equal marks in entrance examination, ranking will be based on marks scored in Post Graduation examination. In case, the Post Graduation marks are also same, then Under Graduate marks will be considered. If the Under Graduate marks are also same, then candidate who is senior in age will be considered for higher ranking.

(ib.) An interview/viva-voce to be organized by the University for the candidates who successfully clear the entrance exam and are selected for the Ph.D. course to discuss their research interest/area through a presentation before a duly constituted University Ph.D. Registration committee of the respective faculty.

(1c.) The interview/viva voce will also consider following aspects, viz.  
whether:

a. To evaluate the research aptitude of the applicants.

b. The candidate possesses the competence for the proposed research.

c. The research work can be suitably undertaken at the Institution/College.

d. The proposed area of research can contribute to new/additional knowledge.

(ii) There will be only one stream of admission annually. The eligibility secured at the entrance exam is valid for admission as per calendar of events and such marks are valid for two terms (for that academic year and next academic year).

(iii) The Colleges under the university which are allowed to conduct Ph.D. programmes shall decide on an annual basis through their academic bodies, a predetermined and manageable number of Ph.D. scholars to be admitted, depending on the number of available Research Guides (not exceeding the permissible number of Scholars in each department) and other academic and physical facilities available. They shall follow the norms regarding the scholar guide ratio, laboratory, library and such other facilities as prescribed by the University.

(iv) The University will notify well in advance through the University website regarding the criteria for admission, procedure for admission, details of entrance examination center(s) and all other relevant information for the benefit of the candidates.

(v) The University shall maintain the list of all the Ph.D. registered students on its website on year-wise basis. The list shall include the name of the registered candidate, topic of his/her research, name of his/ her Guide/co-Guide and date of enrolment/registration.

**There will be only one stream of admission annually.** The eligibility secured at the entrance Exam is valid for admission as per calendar of events and such marks are valid for two terms (for that academic year and next academic year)

The colleges under the University which are allowed to conduct Ph.D. programs shall decide on an annual basis through their academic bodies, a predetermined and manageable number of Ph.D. scholars to be admitted, depending on the number of available Research Guides (Maximum 10 per Department) depending on the number of available Research Guides (Maximum 6 per Guide) and other academic and physical facilities available. They shall follow the norms regarding the scholar- teacher ratio, laboratory, library and such other facilities as prescribed by the University.

**5. Applications are liable for rejection:**

- A. If Incomplete.
- B. If Photograph is not uploaded.
- C. If photographs are found mismatched in the application.
- D. If photographs are not recent one and not attested by a Gazetted Officer.
- E. If the applicant has not signed in the application.
- F. If supporting documents (Enclosures) not attested.
- G. If eligibility is not fulfilled

**6. How to submit:**

**By Post or In-person:**

Print out of application filled online, along with attested copies of all required certificates shall be sent by post or In-person to **“The Registrar, RGUHS,**

**4th ‘T’ Block, Jayanagar, Bangalore – 560 041” by 12/04/2024, before 5.30 P.M. Candidates should super scribe on the cover as “Application for Ph.D Entrance Exam-2023”. Please note that the candidate will not become eligible for attending the Entrance Exam, only by online registration.** The candidate must ensure that print out of his/her application with all enclosures mentioned in the brochure reaches the Department of R&D before the specified date and time. The University does not hold responsibility for loss or delay in postal delivery.

**Enclosures: ( Attested copies)**

- a) SSLC Marks card.
- b) UG and PG Degree Certificates with Marks cards.
- c) Registration Certificate from the State Council in applicable cases.

- d) NOC from the Head of the Institution where the candidate is employed.
- e) Fee paid details: Transaction-Id with date.
- f) Any other relevant documents.

**7. Entrance Exam Fee: - Rs.3000/-**

**Mode of Payment: -Through ONLINE PAYMENT.**

**Note: Registration fee is not refundable under any circumstances.**

**8. Conduct of Entrance Exam:-**

<b>Date</b>	<b>Time</b>	<b>Place</b>
<b>30/04/2024</b>	<b>10-00 A.M. to 01-00 P.M.</b>	<b>Bangalore</b>

**SYLLABUS:-**

The entrance exam is conducted in two parts namely

1. Principles of basic Research methodology – Paper - I
2. Specialty paper - Paper – II

**The Principles of Basic Research Methodology Syllabus is as follows:**

- (1) Research Methodology: An Introduction
- (2) Defining the Research Problem, Hypothesis, Generation of Hypothesis
- (3) Research Design
- (4) Sampling Design
- (5) Measurement and Scaling Techniques
- (6) Methods of Data Collection
- (7) Processing, statistics and Analysis of Data
- (8) Sampling Fundamentals
- (9) Interpretation and Report Writing
- (10) Principle and methods of fundamental research method, literature, drug and research problem survey, clinical research
- (11) Writing an article for a scientific journal
- (12) Bioavailability
- (13) Bioequivalence
- (14) Clinical Trials.

The specialty subject paper Syllabus content shall ordinarily be equal to the syllabus and books prescribed for Post-Graduate Course for that subject as per Regulations of Central Council and/ or the Rajiv Gandhi Universities of Health Sciences.

**9. Duration of examination, pattern of Question Paper and Answer Booklet:-**

There are separate papers for specialty subject with 50 marks and Basic Research Methodology paper with 50 marks.

- Paper - I Question paper comprises of 8 questions of 10 marks each.
- Paper – II Question paper comprises of 8 questions of 10 marks each.
- The candidate shall answer any five questions out of eight questions in both the papers.
- Duration of examination is three hours and separate answer booklets are issued for each paper.

**10. Penalty for false and incorrect statements:-**

Where an applicant has furnished any false and incorrect statement in the application or where the affidavit filed by him or the certificate furnished by him contains any false or incorrect statement, the application shall be liable for rejection and his selection for admission to the Ph. D course shall be cancelled after providing a reasonable opportunity to explain to the Ph. D Registration Committee.

**11. Malpractice:** Any candidate indulging in mal-practice in any sort shall be viewed Seriously and punished and also is liable for criminal proceedings.

**12. Instructions to Candidates:**

- The candidates shall be present at the centre 30 minutes before the commencement of the Exam. The exam commences at 10 AM
- No candidate is allowed after 10:00 AM.
- Only the candidates who possess the Hall Ticket shall be allowed to appear for the Entrance Exam. In case of loss of Hall Ticket, the candidates should contact the Chief Superintendent of the centre one hour earlier for assistance.
- No Candidate shall copy from the paper of any other candidate or permit his /her own papers to be copied or attempt to give or seek any illegal assistance.
- No candidate will be allowed to the examination hall after the commencement of the Entrance Exam.
- No candidate will be allowed to leave the examination hall before the end of the first thirty minutes. Candidates leaving the hall prior to the end of the Entrance Exam will have to hand over the question paper to room invigilator and collect the same at the end of the Exam.
- Candidate should sign the attendance sheet as per the instructions of the invigilator.
- Silence must be observed in the examination hall. Any candidate found guilty of disorderly or improper conduct will be liable for expulsion from the examination hall and will be debarred from the Entrance Exam by the Chief Superintendent of the centre.
- Candidates are not permitted to carry any electronic gadgets like Cell Phone, Bluetooth etc., into the examination hall.

**Sd/-**

**REGISTRAR**

