



Coordinator Ph.D. Entrance Test (P.E.T. 2023)

Maharaja Ganga Singh University

NH 15, Jaisalmer Road, Bikaner-334004 (Rajasthan) INDIA

Email – pet2023@mgsbikaner.ac.in



महाराजा गंगा सिंह विश्वविद्यालय, बीकानेर

ईमेल pet2023@mgsbikaner.ac.in

विज्ञप्ति न. शोध/01/2023

दिनांक : 30.11.2023

पीएच.डी. प्रवेश परीक्षा 2023 के लिए विज्ञप्ति

विश्वविद्यालय अनुदान आयोग, नई दिल्ली की अधिसूचना दिनांक 07.11.2022 एवं विश्वविद्यालय शोध अध्यादेश 101 के अनुसरण में विश्वविद्यालय द्वारा विभिन्न विषयों में पीएच.डी. प्रवेश परीक्षा 2023 हेतु ऑनलाईन आवेदन विश्वविद्यालय वेबसाइट www.mgsbikaner.ac.in एवं www.univindia.net पर दिनांक 02-12-2023 से दिनांक 16-12-2023 तक आमंत्रित किये जाते हैं। ऑनलाईन आवेदन करने एवं पात्रता संबंधित विस्तृत विवरण विश्वविद्यालय वेबसाइट पर उपलब्ध है। समस्त आवेदनकर्ताओं को परीक्षा में सम्मिलित होने की पूर्णतय: अंतरिम (Provisional) अनुमति प्रदान की जाएगी।

समन्वयक

पीएच.डी. प्रवेश परीक्षा 2023



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No. 01/2023

Date: 30.11.2023

NOTIFICATION

(For Admission to Ph.D.)

Online applications are invited for admission to Ph.D. in various subjects through Ph.D. Entrance Test-2023 as per provisions of University Research Ordinance 101 and University Grants Commission (Minimum Standards and Procedures for Award of Ph.D. Degree) Regulations, dated 7th November, 2022.

Eligibility: As per University Research Ordinance 101 and University Grants Commission (Minimum Standards and Procedures for Award of Ph.D. Degree) Regulations, Dated 7th November, 2022.

Number of Seats available: As per the details given below in this notification.

Ph.D.: Admission to Ph.D. in different subjects will be made subject to availability of seats as displayed on the University website in the order of merit in Ph.D. Entrance Test 2023 (Qualifying test and Interview)

Reservation of Seats: As per Reservation Policy of the State Govt.

Application Form: To be filled online from **02.12.2023 to 16.12.2023** and hard copy to be submitted to **Dr. Abhishek Vashishtha, Coordinator, PET-2023, Directorate of Research, Maharaja Ganga Singh University, Bikaner University, Jaisalmer Road, NH-15, Bikaner 334004, Rajasthan**, along with the proof of fees and attested copies of supporting documents in including :

Secondary, Senior Secondary, Graduation, Post Graduation, NET, NET-JRF, SLET/SET or equivalent, Caste Certificate (attach latest valid OBC and EWS certificate, if applicable), Domicile Certificate, Physically Handicap Certificate.

Application Fee: Rs. 3000/- for candidates of Unreserved/OBC(creamy layer) category and Rs. 2500/- for the candidates of SC/ST/OBC (non creamy layer) /MBC/EWS category to be paid through online mode through University website.

Candidate must keep one printout of application form and proof of paid fees for his personal record.

Last date for submission of Application:

16 December, 2023 for online submission

22 December, 2023 for submission of hard copy of application form in the Office of Coordinator, PET-2023.

The hard copy of the application form received after 22.12.2023 (5.00 PM) will not be entertained in any case.

The hard copy of the application form **must be sent by speed post or by hand only and not by courier or any other agency.**



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Date and Time of Test: 08.02.2024 : 12:00 PM-02:00 PM

Pattern of Entrance Test: The entrance test shall be of qualifying nature with qualifying marks as 50% (a relaxation of 5 % marks will be allowed in the entrance examination for the candidates belonging to SC/ST/OBC/differently-abled category, Economically Weaker Section (EWS), and other categories of candidates as per the rules). The syllabus of the entrance test shall consist of 50% portion from subject specific domain and 50% from research methodology. The paper shall consist of 70 objective type multiple choice questions of 1 mark each. The test shall be of 2 hours duration. Answers will be marked on OMR sheet. The qualified candidates twice the number of Advertised seats shall be called for interview. For final selection a weightage of 70 % for the entrance test and 30 % for the performance in the interview/viva- voce shall be given.

Syllabus for Entrance Test: As given on the University website.

Admit Card: To be downloaded from University website from **31-01-2024**.

Notes:

1. Candidates are advised to visit the University website (www.mgsbikaner.ac.in and www.univindia.net) from time to time for related announcements and updates. No. correspondence with individual candidates will be made or entertained.
2. Permission to appear in the Entrance test does not guarantee the eligibility for the admission. All the applicants who fill up the online application form will be provisionally allowed to appear in the written Examination. The eligibility for admission to Ph.D. will be checked after the entrance examination (before interview).
3. On account of the eligibility conditions or any unavoidable circumstances, University reserves the right to cancel the admission to Ph.D. even at a later stage.
4. Eligibility as on last date on filling the online application form shall be considered. Any addition in eligibility or otherwise thereafter will not be considered.
5. All matter related to Ph.D. Entrance Test shall be subject to the jurisdiction of Rajasthan High Court, Jodhpur.

Address for sending the application form (through speed post or by hand only)

Dr. Abhishek Vashishtha
Coordinator, PET-2023,
Directorate of Research,
Maharaja Ganga Singh University, Jaisalmer Road,
NH-15, Bikaner 334004, Rajasthan

Coordinator
PET 2023

Enclosures:

1. Seats for Ph.D.
2. General Rules and Information for Ph.D. Admission
3. Syllabi for Entrance Test



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NUMBER OF SEATS AVAILABLE FOR Ph.D.

The subject wise tentative number matrix of vacant seats is as follows:

S.No.	Subject	No. of Tentative Vacant Seats
1.	Botany	57
2.	Chemistry	48
3.	Commerce	12
4.	Computer Science	6
5.	Education	10
6.	English	64
7.	Environmental Science	20
8.	Geography	52
9.	Geology	8
10.	Hindi	26
11.	History	34
12.	Home Science	5
13.	Jainology	3
14.	Mathematics	12
15.	Microbiology	10
16.	Philosophy	7
17.	Physics	35
18.	Political Science	47
19.	Public Administration	2
20.	Punjabi	2
21.	Sanskrit	14
22.	Sociology	8
23.	Urdu	2
24.	Zoology	31
	Total No. of Seats	515

University reserves the right to increase or decrease the number of seats available in each subject. Admissions to the Ph.D. programme would be made against the vacancies available at the time of the interview.



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General Rules and Information

APPLICATION FEE: Rs. 3000/- for candidates of Unreserved/OBC(creamy layer) category and Rs. 2500/- for the candidates of SC/ST/OBC (non creamy layer) /MBC/EWS category to be paid through online mode through University website.

ELIGIBILITY:

The following are eligible to seek admission to the Ph.D. programme :

(1) Candidates who have completed:

A 1-year/2-semester master's degree programme after a 4-year/8-semester bachelor's degree programme or a 2-year/4-semester master's degree programme after a 3-year bachelor's degree programme or qualifications declared equivalent to the master's degree by the corresponding statutory regulatory body, with at least 55% marks in aggregate or its equivalent grade in a point scale wherever grading system is followed or equivalent qualification from a foreign educational institution accredited by an assessment and accreditation agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country to assess, accredit or assure quality and standards of the educational institution.

A relaxation of 5% marks or its equivalent grade may be allowed for those belonging to SC/ST/OBC (non-creamy layer)/Differently-abled, Economically Weaker Section (EWS) and other categories of candidates as per the decision of the Commission from time to time.

Provided that a candidate seeking admission after a 4-year/8-semester bachelor's degree programme should have a minimum of 75% marks in aggregate or its equivalent grade on a point scale wherever the grading system is followed. A relaxation of 5% marks or its equivalent grade may be allowed for those belonging to SC/ST/OBC (non-creamy layer)/Differently-abled, Economically Weaker Section (EWS) and other categories of candidates as per the decision of the Commission from time to time.

- (2) Candidates who have completed the M.Phil. programme with at least 55% marks in aggregate or its equivalent grade in a point scale wherever grading system is followed or equivalent qualification from a foreign educational institution accredited by an assessment and accreditation agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country to assess,



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accredit or assure quality and standards of educational institutions, shall be eligible for admission to the Ph.D. programme. A relaxation of 5% marks or its equivalent grade may be allowed for those belonging to SC/ST/OBC (non-creamy layer)/Differently-abled, Economically Weaker Section (EWS) and other categories of candidates as per the decision of the Commission from time to time.

Ph.D. THROUGH PART TIME MODE :-

- (1) Ph.D. programmes through part-time mode will be permitted, provided all the conditions as stipulated in University Research Ordinance are fulfilled.
- (2) The candidate will produce a 'No Objection Certificate' for part time Ph.D. programme from competent authority of the organization where the candidate is employed. Such certificate should clearly state that :
 - i. The candidate is permitted to pursue studies on a part-time basis.
 - ii. His/her official duties permit him/her to devote sufficient time for research.
 - iii. If required, he/she will be relieved from the duty to complete the course work.

ADMISSION PROCEDURE: -

- i. Candidates who have secured 50 % marks in the MCQ based written entrance test shall be eligible to be called for the interview.
- ii. The selection of candidates shall be based on the entrance test and interview conducted by the University. A weightage of 70 % for the entrance test and 30 % for the performance shown in the interview/viva- voce shall be given.
- iii. The entrance test shall be of qualifying nature with qualifying marks as 50%. The syllabus of the entrance test shall consist of 50% portion from research methodology and 50% from subject specific domain. The examination will consist of two sections. Section - A shall consist of 35 Multiple Choice Questions (MCQ) based on Research Methodology (One mark for each question) and Section- B will consist of 35 Multiple Choice Question (MCQ) (One mark for each question) from the subject concerned. There will be no negative marking. The test shall be of 2.00 hours duration (Answers will be marked on OMR sheet).
- iv. A relaxation of 5 % marks will be given in the entrance examination for the candidates belonging to SC/ST/OBC/differently-abled category and Economically Weaker Section (EWS).
- v. The syllabus of the Section- A “Research Methodology” is given on University website. The syllabus of Section - B (Subject Specific) will be the same as that of UGC-CSIR NET examination and can be obtained from the website of UGC (<https://www.ugcnetonline.in/syllabus-new.php>) or CSIR (<https://csirhrdg.res.in/Home/Index/1/Default/2666/78>).



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- vi. Qualified candidates, maximum twice the number of seats, shall be called for interview/viva-voce before the DRC to discuss their research interest/area and give a presentation on the same.
- vii. State-level reservation and admission policy shall be applicable.
- viii. If the number of seats is equal to or more than the qualified candidates, the DRC may recommend all or less number of candidates depending upon the viva voce/interview.
- ix. If the number of seats is less than the number of qualified candidates, the final selection shall be made on the basis of combined merit in the qualifying test and viva voce/interview.

COURSEWORK

- i. The candidate selected above will have to undergo Course Work in lines with the norms of the University.
- ii. The candidate must get minimum 55% marks or equivalent grade point to pass the course work.
- iii. Duration of Course Work shall be of 6 months. This duration will be counted in completion of Research Work. In case a candidate fails in course work examination fully/partially, he shall be given one more chance and will be allowed to reappear in the next Course Work examination conducted by the University on deposition of prescribed fee/registration fee as per the University Rules.
- iv. If a candidate fails to clear Course Work examination in two attempts, his admission will be treated as cancelled.

DURATION OF RESEARCH WORK

- i. Ph.D. programme shall be for a minimum period of 3 years including Course Work and maximum of 6 years for full time research scholars and for a minimum period of 4 years including Course work and maximum of 7 years for part time research scholars.
- ii. The extension beyond the above limits may be permissible for a further period of one year on case-to-case basis by the University. No further extension shall be granted after this period and candidates shall be required to re-register afresh beyond this period.
- iii. Women candidates and candidate with disability (more than 40% disability) may be allowed a relaxation of two years in maximum period. In addition, the women candidates may be provided Maternity Leave/Child Care Leave once in entire duration for upto 240 days. 75% attendance in the Course Work classes will be compulsory to become eligible for the Course Work examination.



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Note: Candidates are advised to visit the University website (www.mgsbikaner.ac.in, www.univindia.net) from time to time for related announcements and updates. No correspondence with individual candidate will be made or entertained.

For any other information or any query, applicants are advised to contact during office hours from Monday to Saturday (10.00 AM to 05.00 PM). Candidates may also send their queries on email – pet2023@mgsbikaner.ac.in

Coordinator
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Syllabus for Ph.D. Entrance Test

Section A

Research Methodology Common for all Subjects

1. Research Foundation: Meaning, Objectives, Utility. Concept of theory, Empiricism, Deductive, and Inductive theory. Characteristics of Scientific methods. Understanding the language of research : Concept, Construct, Variable. Research Process, Research Gaps.
2. Identification & Formulation: Definition and formulation of the research problem, Necessity of defining the problem, Importance of Literature Review in defining a Problem. Research Question : Investigating Question, Measurement Issues, Hypothesis : Qualities of a good hypothesis, Null hypothesis and alternative Hypothesis. Hypothesis Testing : Logic & importance.
3. Research Design: Features of a good research Design, Exploratory Research Design : Concept, Types and uses; Descriptive Research Design : concept, types and uses; Experimental Design : Concept of Independent & Dependent Variables.
4. Data Collection and Analysis: Execution of the research, Observation and Collection of Data, Methods of Data collection, Hypothesis testing, Generalization and Interpretation.
5. Sampling: Concept of Statistical population, Sample, Sampling Frame, Sampling Error, Sample size, Nonresponse. Characteristics of a good sample. Probability Sample, Simple Random Sample, Systematic Sample, Stratified Random Sample & Multi-stage Sampling. Determining size of the sample; Practical considerations in sampling and Sample size.
6. Interpretation of Data and Paper Writing: Layout of a Research Paper, Impact factor of journals, When and where to publish? Use of Encyclopedias, Research Guides, Handbook etc., Academic databases for concerned discipline.
7. Reporting and Thesis writing: Structure and components of Scientific Reports, Types of Report, Technical Reports and Thesis, Significance; Different steps in the preparation: Layout, Structure and Language of typical reports. Illustrations and Tables. Bibliography, Referencing and Footnotes. Oral presentation: Planning, Preparation, Practice. Making presentation: Use of visual aids, Importance of effective Communication.
8. Results and Ethics: Environmental impacts, Ethical issues, Ethical Committees, Commercialization, Copyright, Royalty, Intellectual Property Rights and Patent Law-Trade-related aspects of intellectual property Rights. Ethical issues Related to publishing, Plagiarism and Self-Plagiarism. Citation and Acknowledgment. Reproducibility and Accountability.



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Reference Books:

1. Garg, B.L., Karadia, R., Agarwal, F. and Agarwal, U.K., 2002. An introduction to Research Methodology, RBSA Publishers.
2. Sinha, S.C. and Dhiman, A.K., 2002. Research Methodology(set of Two Vol.), Ess Ess Publications, New Delhi. ISBN: 8170003245
3. Trochim, W.M.K., 2005. Research Methods: the concise knowledge base, Atomic Dog Publishing. 270p.
4. Wadehra, B.L. 2000. Law relating to patents, trade marks, copyright designs and geographical indications. Universal Law Publishing.
5. Leedy, P.D. and Ormrod, J.E., 2004 Practical Research: Planning and Design, Prentice Hall.
6. Satarkar, S.V., 2000. Intellectual property rights and Copyright. Ess Ess Publications
7. Kothari, C.R. and Garg G. 2019. Research Methodology: Methods and Techniques. 4th Edition, New Age International Publishers, New Delhi. ISBN 9386649225.
8. Banerjee B. 2018. Mahajan's Methods in Biostatistics for Medical Students and Research Workers. Jaypee Brothers Medical Publishers. ISBN.9789352703104
9. Vigneswari S., Goswami I., Ashraf S., Malleswara Rao L., Yelsani Y. 2012. Handbook of Research Methodology. 2012. Redshine Publication ISBN: 978-93-94727-84-7
10. Creswell J. W. and Creswell D.J. 2022. Research Design: Qualitative, Quantitative, and Mixed Methods Approaches (6th Edition). SAGE Publications, Inc. ISBN : 1506386709.



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Syllabus for Ph.D. Entrance Test Section B Subject Specific

The syllabus of Section - B (Subject Specific) will be the same as that of UGC-CSIR NET examination and can be obtained from the website of

UGC (<https://www.ugcnetonline.in/syllabus-new.php>)

or

CSIR (<https://csirhrdg.res.in/Home/Index/1/Default/2666/78>).