

# DEVI AHILYA VISHWA VIDYALAYA, INDORE

## DOCTORAL ENTRANCE TEST (DET)-2017

### M.Phil./ Ph.D. ADMISSIONS-2017

#### GUIDELINES FOR HEADS OF DET CENTRES

1. Admission notification is being issued for admission in Ph.D./M.Phil. in the following subjects:

Subjects for Ph.D.		Subjects for M.Phil.
1. Applied Chemistry	21. Hindi	1. Commerce
2. Applied Mathematics	22. History	2. Economics
3. Applied Physics	23. Information Technology	3. Education
4. Biochemistry	24. Instrumentation	4. Energy and Environment
5. Biotechnology	25. Law	5. English
6. Botany	26. Life Science	6. Geography
7. Chemistry	27. Management	7. Hindi
8. Commerce	28. Mathematics	8. History
9. Computer Science	29. Mechanical Engineering	9. Home Science
10. Computer Engineering	30. Pharmacy	10. Law
11. Data Science	31. Physical Education	11. Life Science
12. Economics	32. Physics	12. Management
13. Education	33. Political Science	13. Mathematics
14. Electronic Media	34. Psychology	14. Physical Education
15. Electronics	35. Social Work	15. Physics
16. Electronics and Telecommunication	36. Sociology	16. Political Science
17. Electronics and Instrumentation	37. Statistics	17. Psychology
18. Energy and Environment	38. Zoology	18. Sanskrit
19. English		19. Social Work
20. Geography		20. Sociology
		21. Urdu

Applications will be called online with last date of July 31, 2017.

2. The Doctoral Entrance Test (DET-2017) is scheduled on 10/08/2017 from 11.00 a.m to 1.00 p.m. at the respective DET centres. Subject-wise list of DET centres is as follows:

No.	Subject	Programme(s)	DET Centre
1.	Applied Chemistry	Ph.D.	Institute of Engineering and Technology (IET)
2.	Applied Mathematics	Ph.D.	Institute of Engineering and Technology (IET)
3.	Applied Physics	Ph.D.	Institute of Engineering and Technology (IET)
4.	Biochemistry	Ph.D.	School of Biochemistry
5.	Biotechnology	Ph.D.	School of Biotechnology
6.	Botany	Ph.D.	School of Life Sciences

7.	Chemistry	Ph.D.	School of Chemical Sciences
8.	Commerce	Ph.D., M.Phil.	School of Commerce
9.	Computer Science	Ph.D.	School of Computer Science & IT
10.	Computer Engineering	Ph.D.	Institute of Engineering and Technology (IET)
11.	Data Science	Ph.D.	School of Data Science and Forecasting
12.	Economics	Ph.D., M.Phil.	School of Economics
13.	Education	Ph.D., M.Phil.	School of Education
14.	Electronic Media	Ph.D.	Educational Multimedia Research Centre (EMRC)
15.	Electronics	Ph.D.	School of Electronics
16.	Electronics and Instrumentation	Ph.D.	Institute of Engineering and Technology (IET)
17.	Electronics and Telecommunication	Ph.D.	Institute of Engineering and Technology (IET)
18.	Energy and Environment	Ph.D., M.Phil.	School of Energy and Environmental Studies
19.	English	Ph.D., M.Phil.	School of Languages
20.	Geography	Ph.D., M.Phil.	School of Social Science
21.	Hindi	Ph.D., M.Phil.	School of Languages
22.	History	Ph.D., M.Phil.	School of Social Science
23.	Home Science	M.Phil.	School of Social Science
24.	Information Technology	Ph.D.	Institute of Engineering and Technology (IET)
25.	Instrumentation	Ph.D.	School of Instrumentation
26.	Law	Ph.D., M.Phil.	School of Law
27.	Life Science	Ph.D., M.Phil.	School of Life Sciences
28.	Management	Ph.D., M.Phil.	Institute of Management Studies (IMS)
29.	Mathematics	Ph.D., M.Phil.	School of Mathematics
30.	Mechanical Engineering	Ph.D.	Institute of Engineering and Technology (IET)
31.	Pharmacy	Ph.D.	School of Pharmacy
32.	Physical Education	Ph.D., M.Phil.	School of Physical Education
33.	Physics	Ph.D., M.Phil.	School of Physics
34.	Political Science	Ph.D., M.Phil.	School of Social Science
35.	Psychology	Ph.D., M.Phil.	School of Social Science
36.	Sanskrit	M.Phil.	School of Languages
37.	Social Work	Ph.D., M.Phil.	School of Social Science
38.	Sociology	Ph.D., M.Phil.	School of Social Science
39.	Statistics	Ph.D.	School of Statistics
40.	Zoology	Ph.D.	School of Life Sciences
41.	Urdu	M.Phil.	School of Languages

3. **Eligibility:** At the time of application for admission in Ph.D. / M.Phil. programme the applicant must hold a Master's degree or equivalent in the concerned or allied subject with at least 55% Marks (50% for SC/ST/OBC(non-creamy layer)/Differently-abled and other categories of candidates as per the decision of the UGC from time to time, or for those who had obtained their Master's degree prior to 19<sup>th</sup> September,

1991.) of the university, a deemed university or other university incorporated by any law for the time being in force and recognized by the University.

4. A candidate shall ordinarily be permitted to work for Ph.D. / M.Phil. degree in the subject in which he/she has obtained his/her Master's degree. However, research work leads to Ph.D. / M.Phil. degree may be allowed in allied subject of interdisciplinary nature of the same faculty or of allied faculties. In such cases, candidates may be permitted to work under one or two co-supervisors along with the supervisor.
5. If a candidate wants to pursue Ph.D./M.Phil. in an interdisciplinary/ allied subject other than the subject which he/she has opted for DET-2017 should apply for interview in the School of Studies of allied subject along with a certificate from the respective Head of the Department (DET Centre) certifying that the candidate has qualified the DET and eligible for interview. The name of such candidates will be deleted from the list of the candidates qualified for interview in the subject in which he/she opted for DET and will be included in the list of the candidates for interview in the allied subject.
6. The candidate may select the subject for the DET in which he/she has completed Master's Degree or the allied subject in which he/she wants to take admission. If the candidate qualifies DET with the subject in which he/she has completed Master's Degree and wants to take admission in an allied subject of interdisciplinary nature, he/she may be permitted for interview in the allied subject. In such cases permission may be given by the Dean of the Faculty / Chairperson (BOS) of the allied subject after seeing the relevance of the subject of the Masters' degree with the allied subject.
7. The students who have qualified UGC-NET with JRF / UGC-CSIR-NET with JRF / teacher fellowship holder or any other Government / Foreign research fellowship holder or have passed M.Phil. programme (as per UGC Regulations 2009 or amended thereafter) with course work shall be exempted from the entrance test but they have to appear in the interview. Such candidates should select the subject for interview in which they want to take admission. However, it is mandatory for them also to apply online through MP-Online <https://davv.mponline.gov.in> along with the application fee of Rs. 1000/- (Rupees one thousand only).

The candidates who have applied earlier in this category, against our Special Drive for Admissions in Ph.D. in the month of April, 2017, need not to apply again.

The students who have qualified UGC/CSIR-NET without JRF / SLET/ SET have to appear in the DET for admission in M.Phil./ Ph.D. The research fellowships directly awarded to the students by the central / state government will be considered as Govt. fellowships.

8. There is no age limit for admission in Master of Philosophy (M.Phil.) / Doctor of Philosophy (Ph.D.) programmes.
9. Seats reserved for SC/ST/OBC category will be offered to the SC/ST/OBC candidates of Madhya Pradesh domicile only. SC/ ST/OBC candidates from other states and the candidates from other reserved categories from any state will be treated under unreserved category. Select your category carefully. SC/ ST/OBC candidates have to produce category certificate and valid M.P. domicile certificate issued by appropriate authorities at the time of counselling. Ensure that you have correctly selected your category. Change of category shall not be accepted thereafter at any stage.

10. The Research Advisory Committee (RAC) constituted by the Vice Chancellor shall perform the following functions:
1. To scrutinize the applications.
  2. To arrange the Doctoral Entrance Test.
  3. To conduct the interview.
  4. To submit the final list of candidates.
  5. Any related work assigned by the Vice-Chancellor.

Head of the School shall act as member and Co-ordinator of the RAC.

11. **Entrance Test:** The Doctoral Entrance Test will have the question paper in two parts. Part-A shall consist of 50 objective type compulsory questions of 1 mark each based on research methodology. It shall be of generic nature, intended to assess the research aptitude of the candidate. It will primarily be designed to test reasoning ability, data interpretation, and quantitative aptitude of the candidate. Part-B shall also consist of 50 objective type compulsory questions of 1 mark each based on the syllabus of the subject at Masters level.

The duration of the Doctoral Entrance Test will be of two hours. There will be no negative marking.

The candidates must score minimum 50% marks in the entrance test to qualify for the interview. A list of the eligible candidates for interview shall be prepared by the RAC on the basis of the result of the Doctoral Entrance Test and the same shall be submitted to the Registrar to notify.

12. **Interview:** The students who are exempted from the entrance test and who have qualified the DET shall have to appear in the interview for admission in Ph.D. / M.Phil. in the subject where they want to take admission. The interview shall be conducted by the Research Advisory Committee of the concerned subject. The date of interview in each subject will be notified on the website of the University.

The candidates are expected to bring the No Objection Letter from the proposed Supervisor and Co-supervisor (if applicable) duly forwarded from the Head of the research centre (s). The candidates should also bring with them the following documents:

- a. Original certificates and mark sheets along with a self-attested copy of each of the certificate and mark sheet of 10<sup>th</sup>, 12<sup>th</sup>, Graduation, and P.G. classes.
- b. Original documents along with a self-attested copy of SC/ ST/ OBC /MP domicile certificate (whichever is applicable) to claim the benefit of reservation, as per MP Govt. rules.

The candidates are required to discuss their research interest / area through a presentation before a duly constituted Research Advisory Committee. The interview/*viva-voce* shall also consider the following aspects, viz. whether:

- the candidate possesses the competence for the proposed research;
- the research work can be suitably undertaken at the research centre;
- the proposed area of research can contribute to new/additional knowledge.

The evaluation in interview will be based on 100 marks to be allocated in the following criteria, each of 25 marks:

- (i) Research plan
- (ii) Research potential/ aptitude
- (iii) Communication skills
- (iv) Subject knowledge in the respective area of research.

Merit list will be prepared on the basis of the marks obtained out of 100 marks in the interview.

The RAC shall finalize the list of the candidates to be admitted to the Ph.D./ M.Phil. programme in the concerned subject as per the merit and availability of seats. It shall also allot the Research centre, Supervisor, Co-Supervisor (if any), and approve the tentative area of the proposed research work.

13. The final list shall be submitted to the Registrar. After the approval of Honb'le Vice Chancellor, the list shall be notified on the University website.
14. **Allocation of Supervisor:** The allocation of the supervisor for a selected student shall finally be decided by the RAC in a formal manner depending on the available seats with the supervisor, the available specialization among the supervisors and the research interest of the student as indicated during the interview. In case Supervisor is not working at the research centre a Co-supervisor may be allotted from the research centre to guide and monitor the research scholar at the centre.

In case of topics which are of inter-disciplinary nature where the RAC feels that the expertise in the research centre has to be supplemented from outside, the RAC may appoint a Research Supervisor from the university, who shall be known as the Research Supervisor, and a Co-Supervisor from outside the Research centre/ Faculty / College/ University on such terms and conditions as may be specified and agreed upon by the consenting Institutions/Colleges.

**18. Course Work for Ph.D.:**

(a) The candidates selected for Ph.D. programme are required to apply for the Ph.D. registration on prescribed proforma downloadable from the university website. The duly filled registration form along with the necessary documents and certificates shall be forwarded by the research centre after verifying the payments of the following fees:

- (i) Registration fee
- (ii) Ph.D. Course work fee
- (iii) Research Centre fee for six months
- (iv) Research Centre Caution Money (payable once only and refundable)
- (v) University Library fee for six months
- (vi) University Library caution money (payable once only and refundable)
- (vii) IT Infrastructure fee for six months
- (viii) Research Laboratory fee for six months (where laboratory work is involved)
- (ix) Identify card fee
- (x) Any other fee as decided by the university.

Duly forwarded Ph.D. registration form should be submitted to the University and a photocopy of the same form and documents should be submitted to the Research Centre.

The candidates already completed the course work with at least 55% of marks in M.Phil. and admitted to the Ph.D. programme shall be exempted from the Ph.D. course work and its fee. All other candidates admitted to the Ph.D. programme and submitted the Ph.D. registration form shall be required to complete the course work of 16 credits as prescribed by the University/ Research Centre during initial one or two semesters. The course work shall be treated as prerequisite for Ph.D. The Ph.D. course work shall contain the following courses:

(i)	Research Methodology	4 credits
(ii)	Review of Published Research in the relevant field	3 credits
(iii)	Computer Applications	3 credits
(iv)	Advance course in the subject of research	3 credits
(v)	Comprehensive Viva-Voce	3 credits

The course on Research Methodology should cover areas such as statistical research methods, research ethics, research report writing, etc. The course on Review of Published Research in the relevant field will be undertaken under the supervisor or the regular teacher of the centre of course work and the candidate has to consult the library or other resources to carry out the literature review. At the end of the semester the candidate has to submit a brief report on the literature review for evaluation, which will be done by the two examiners. The course on computer applications will include the computer applications helpful in the research subject. The advanced course in the relevant field shall comprise the topics related to the subject of research. The syllabus of the courses on research methodology, computer applications, and advanced course shall be decided by the concerned Board of Studies.

The final grades shall be submitted to the University. The University shall issue the certificate of the Ph.D. course work in the prescribed format.

## 22. **Course work for M.Phil.:**

After having been admitted, each M. Phil. student shall be required to undertake course work of one semester of 24 credits as prescribed by the University/ School of Studies/ Departments.

The overall minimum credit requirement, including credit for the course work, for the award of M.Phil. degree shall not be less than 48 credits. The syllabus for M. Phil course shall be prepared by the concerned Board of studies and approved. However, the Board of studies shall be instructed to prepare the syllabus in the following manner:

**First Semester:** The credits of the M.Phil. Course work (24 credits) will be as under:

I.	Research Methodology	(4 credits)
II.	Review of Published Research in the relevant field.	(4 credits)
III.	Computer Applications.	(4 credits)
IV.	One Advance subjects in the relevant field.	(4 credits)
V.	Synopsis Submission.	(4 credits)
VI.	Comprehensive Viva-Voce	(4 credits)

**Second Semester:** Upon satisfactory completion of course work, the M.Phil. scholars shall be required to undertake research work (dissertation/thesis) in the second semester (24 credits). Along with some seminars and presentations as prescribed below-

I. Seminar	(4 credits)
II. Term Paper/ Assignment	(4 credits)
III. Final Dissertation/ Project Presentation	(12 credits)
IV. Comprehensive Viva-Voce	(4 credits)

### 23. Common Points for Course Work:

- (a) All courses prescribed for Ph.D./M.Phil. course work shall be in conformity with the credit hour instructional requirement and shall specify content, instructional and assessment methods. The examination and evaluation scheme for the course work shall be as per the Ordinance 31 of the University.
- (b) The candidate has to obtain a minimum of 55% of marks or its equivalent grade points in aggregate in the course work in order to be eligible to continue in the Ph.D. / M.Phil. programme.
- (b) The course work for Ph.D./ M.Phil. shall be conducted in the University Teaching Departments/ Research centers as approved by the Vice chancellor.
- (c) If a student obtains F or Ab Grade in a course/ subject, he /she will be treated to have failed in that course. He / she have to reappear in the examinations of the course as and when conducted or arranged by the UTD in the next semester. Marks obtained earlier in continuous assessment may be carried forward and added to the marks obtained in repeat end-semester examination to decide the grade in the repeat course. The student has to pay the prescribed fee for repeating the course. If he/she further fails in the course, he/she shall not be given another chance and he/ she shall be out of the Ph.D./M.Phil. programme. No student shall be allowed to repeat the course to improve the grade if he/ she pass the course.
- (d) A combined course work for M.Phil. and Ph.D. students may be conducted for a single / group of subjects wherever possible. If found necessary, course work may be carried out in sister UTD/ Institute within the University for which due credit will be given.

### 24. Registration of the student for Ph.D.:

After successful completion of the Ph.D. course work the students shall submit the copy of the certificate of the course work and synopsis of the proposed research work in the prescribed Proforma to the University within two months from the date of declaration of result of the Ph.D. course work.

The University shall conduct the meeting of the **Research Degree Committee (RDC)** in which the candidate shall make an oral presentation of his/ her proposed research work before RDC.

The RDC shall recommend the topic of research and the date of registration of the candidate for the Ph.D. degree. On approved by the RDC, the candidate shall be registered and enrolled as a Ph.D. student from the date on which candidate deposited

the registration fee or as decided by RDC whichever is later. Candidate will also be required to pay regular tuition, library, IT centre and laboratory fees (six monthly) during his research tenure.

Provided that, if the RDC approves the topic and suggests a minor change, then the candidate shall be allowed to submit a revised synopsis through the Chairperson, BOS and Dean of the faculty.

If the RDC does not approve/recommend a candidate for registration to Ph.D. Candidate shall be allowed to make an oral presentation again in the next RDC. In such cases, date of registration shall be as per the recommendation of RDC.

Provided that, if candidate fails to be present or satisfy the RDC for the second time, his / her case will be rejected / cancelled. In such case, the caution money deposited by the candidate shall be refunded.

25. A candidate shall pursue his/her Ph.D./ M.Phil. at the allotted research centre.
26. The concerned University Teaching Department (UTDs) can act as the centres for Doctoral Entrance Test and Course Work. For the subjects which are not available in UTDs the Honb'le Vice Chancellor may assign the course work to any UTD. The course work in some of the subjects can be merged with other allied subjects if recommended by BOS.
27. The Head of the department of the concerned subject can be allowed to work as Head Examiner for DET of that centre. He/ She will pool the papers along with the key (solution of the question paper) from the examiners, arrange for printing of question paper from the university press/UTD, and conduct of DET. The examination committee of the concerned subject will submit the two panels of examiners for each subject to execute the paper setting work of Part-A and Part-B separately. The Vice Chancellor may appoint one examiner from each panel to act as the examiner for that subject.

Dr. Ashok Sharma

Dr. Kanhaiya Ahuja

Dr. V. B. Gupta

Dr. Ganesh Kawadia