



दिल्ली विश्वविद्यालय UNIVERSITY OF DELHI

DAA/Misc./09/2026/1460

Dated: 14.10.2026

NOTIFICATION

Subject: Pattern and Syllabus of Ph.D Entrance Test for students who applied for direct admission to the Ph.D programmes in 2026-27 after completion of Four-Year UG programme with Research/Entrepreneurship.

The pattern and syllabus of Ph.D entrance Test for students who applied for direct admission to the Ph.D programmes in 2026-27 after completion of Four-Year UG programme with Research/Entrepreneurship is notified herewith for information to all the concerned:

- (i) The Ph.D entrance Test shall be conducted for those students who have completed 4year/8 semester UG programmes under UGCF 2022 of the University of Delhi, with at least 7.5 CGPA (and 7 CGPA for SC/ST/PwBD) and have not cleared UGC-CSIR NET/GATE/CEED or similar National level test. The students who have written Dissertation or done Academic Project (not translation work) or Entrepreneurship in their fourth year of UG programmes will only be eligible to appear for the entrance test.
 - (ii) The Ph.D Entrance Test syllabus shall consist of two sections i.e. Research Methodology and Subject specific section. The Test shall be for a duration of two hours for 100 marks. The test on Research Methodology shall consists of MCQ based questions carrying 50 marks while the test on Subject specific section shall consists of descriptive based questions related to the research/entrepreneurship done by students and shall carry 50 marks. In MCQs, there shall be negative marking for each incorrect answer carrying (-)25% value of each correct answer.
 - (iii) The students who will secure 50% marks or more (45% for SC/ST/PwBD) in the entrance test be called for the interview. Prior to the interview, students shall submit a copy of the dissertation/ report of the academic project/report of the entrepreneurship based on which they were assessed in the fourth year of their UG programmes.
 - (iv) The selection of candidates for admission to the Ph.D programme through this process will be based on merit determined by giving 70% weightage to the marks obtained in the entrance test and 30% to the performance in the interview.
2. The common syllabus for 'Research Methodology' paper for the Ph.D Entrance Test for Commerce, Humanities, Social Sciences, Home Science, Psychology and Applied Psychology (**excluding** History, Philosophy, Music and Languages) is attached as "**Annexure-A**"

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3. The common syllabus for 'Research Methodology' paper for the Ph.D Entrance Test for Physical/Natural/Applied Sciences, Electronics, IT, Mathematical Sciences, including Computer Science (**excluding** Home Science) is attached as "**Annexure-B**"
4. The syllabi of Research Methodology paper for the Ph.D Entrance Test for History, Philosophy, Music and Languages shall be the respective syllabi of Research Methodology course taught in the 4-Year UG programmes of the University of Delhi.

Note: The details of the Ph.D Entrance Test shall be notified separately.

This is issued with the approval of the Competent Authority.

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**Research Methodology syllabus for the Ph.D Entrance test for Commerce,
Humanities and Social Sciences, Psychology & Applied Psychology, Home Science**
(excluding History, Philosophy, Music and Languages)

- 1. Foundations of research:** Research, types of research, formulation of Research objectives, Research Questions formulation, hypotheses, qualitative vs. quantitative methods, mixed method
- 2. Literature Review & Management:** Literature Review and its importance, Databases and tools (databases (Google Scholar, Scopus, Web of Science, PubMed etc.) for culling out literature, Research Gap Analysis
- 3. Research Design & Methodology:** doctrinal and empirical research, Primary and Secondary data; Universe, study area/ population, sampling techniques, cross-sectional vs longitudinal studies,
- 4. Data Collection tools, methods & Sampling:** - Questionnaires, interviews guides/schedules, observations, Focus group discussion, case studies. Sampling techniques, sample size, Likert scale,
- 5. Data analysis:** Qualitative and Statistical/quantitative data; Objectivity and Subjectivity; content analysis; thematic analysis, grounded theory; tools for data analysis - Chi-square test, t-test, SPSS, NVivo, ATLAS.ti etc.
- 6. Academic and publication ethics:** - understanding plagiarism, types of plagiarism (direct, self-plagiarism, mosaic, accidental/unintentional, paraphrasing); avoiding plagiarism, role of citation, citation styles, paraphrasing and quotation marks, similarity checks, ethical considerations, use of Artificial Intelligence (AI), plagiarism and AI detection software.



Research Methodology syllabus for the Ph.D Entrance test for Physical /Natural/ Applied Sciences, Electronics, IT, Mathematical Sciences including Computer Science

1. **Foundation of Research:** research, types of research, problem identification/ formulation, Research objectives, qualitative vs. quantitative methods, mixed methods, basic vs. applied research, and hypothesis generation and testing.
2. **Literature Survey & Management:** Searching academic databases (Google Scholar, Scopus, Web of Science, PubMed), Literature Review and its importance, Research Gap Analysis
3. **Data Collection & Sampling:** Data types (primary/secondary), sampling techniques, and experimental designs with variables and controls; randomisation
4. **Statistical Analysis & Tools:** Descriptive and inferential statistics (mean, median, SD, t-test, ANOVA, regression) and data software (MS Excel, Origin, SPSS, R, LaTeX, NVIVO).
5. **Research Ethics & Intellectual Property Rights (IPR):** Academic integrity, avoiding plagiarism (Turnitin, Urkund), publication ethics (COPE guidelines), IPR (patents, copyrights, trademarks), and research funding/grants.
6. **Citation styles & Journal Metrics:** (APA, MLA), and reference management software (Mendeley, Zotero, EndNote); Journal metrics: Impact factor of journal as per JCR, MCQ, SNIP, SJR, Google Scholar metric; Challenges of journal metrics.
7. **Scientific Communication:** Thesis and paper writing structures (IMRAD format), research grant proposals, and poster/oral presentations.

