

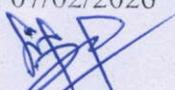
Syllabus for the Ph.D. Entrance Examination

Name Of the Institute	:	Institute of Pharmacy
Name of Department/Specialization	:	Pharmaceutics, Pharmacology, Pharmaceutical Chemistry, Pharmaceutical Analysis and Pharmacognosy
Academic Year	:	2026-2027

RESEARCH METHODOLOGY

1. Fundamentals of Research
 - Objective & Types of Research
 - Selecting a research problem
 - Methods, Design and Tools used in research
 - Literature Survey, Primary & Secondary Sources of Information
 - Documentation types and techniques
2. The research Report/Paper writing/thesis writing and Scientific Writing
 - E-Resources
 - Presentation of Experimental Data
 - Ethics in Research & Publication
 - Plagiarism and software to detect plagiarism
 - Writing scientific manuscript
3. Research Grants Writing
 - Overview of various National and International Agencies
 - Types of different Government and Private granting bodies
 - Research Proposal Writing
4. Intellectual property rights (IPR) & Patents
 - IPR: Introduction to patents, copy rights & trademarks
 - Patent : Prior art search, patent filing in India and abroad, patent infringement
5. Statistics in research
 - Fundamentals and applications of mean, median, mode, standard deviation, SEM, Regression and Correlation analysis, hypothesis testing (Z-test, t-test, chi square etc.), ANOVA etc. in pharmaceutical research with its interpretations.

Date: 07/02/2026


Dr. Gopal Natesan
Signature of HoI