

**INDIAN INSTITUTE OF PUBLIC HEALTH GANDHINAGAR**  
*(A University established under IIPHG Act, 2015 of Gujarat)*

**Syllabus for Entrance Exam of PhD Programme in Hospital Administration**

**Overview**

The entrance examination shall focus on research methodology (section I) and second portion shall focus on hospital administration (Section II).

**Section I: Research Methodology**

<b>Research Methodology</b>	<b>Weightage</b>
Introduction to Research: Meaning of research, research paradigm, types of research, research problem, formulating problem statement, aim, objectives and research questions	10%
Literature review: Types of literature review, literature search, identifying research gaps, writing literature review, conceptual framework, theoretical framework, analytical framework	10%
Research Design: Research design, types of research designs, population, sample, variables, hypothesis, determination sample size, sampling techniques, selection of appropriate research design	20%
Data Collection: Classification of data, benefits and drawbacks of data, evaluation and management of data, qualitative methods of data collection, types of data analysis, types of measurements, criteria of good measurements, classification of scales.	20%
Data Analysis & Report writing: Data cleaning, Descriptive and inferential statistics, qualitative data analysis, steps of report writing	20%
Ethics in research: General principles on ethical considerations involving human/animal subjects, ethical review procedures, Institutional ethics committee, its organization and functions, general ethical issues.	20%

**Suggested books:**

- 1) Research Design: Qualitative, Quantitative and Mixed Methods Approaches (Fifth Edition); By John Creswell and J. David Creswell, Sage Publications
- 2) Research Methodology: A Step-by-Step Guide for Beginners; By Ranjit Kumar, Sage Publications
- 3) IAPSM's Textbook of Comprehensive Research Methodology (2024). Chief Editor: Sanjay Zodpey, Jaypee Brothers Medical Publishers
- 4) Methods in Biostatistics for Medical Students and Research Workers. 7<sup>th</sup> Edition (2018); By B K Mahajan, Jaypee Brothers Medical Publishers

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**Section II: Hospital Administration**

<b>Topics</b>	<b>Weightage</b>
Hospital Administration Definition, types, role, principles of Hospital Administration	10%
Clinical Services: Out Patient Department- Overview and types, Functions, Layout, Managerial Considerations; Emergency Service Department - Overview and types, Functions, Layout, Managerial Considerations; In Patients Department - Overview and types, Functions, Layout, Managerial Considerations; Operation Theatre - Overview and types, Functions, Layout, Managerial Considerations; Intensive Care Unit (ICU) New Borne Nurseries & Neonatal Intensive Care Unit (NICU), Operation Theatre Management	20%
Clinical Support Services Radiology services - Function and types of services, Physical Facilities and Locations, Staffing, Policies and procedures; Laboratory services - Types of Laboratory and services, Organization, Staffing, Quality assurance and Quality control techniques; Pharmacy services – Classification, Functions, Physical facilities, Staffing, Policy and procedures and Managerial Issues.	20%
Ancillary Services Linen and laundry; Housekeeping Services, Dietary services; Medical Record Department- Purpose Scope and Importance, Functions and Processing, Reports/ hospital utilization statistics; PR in Hospitals	10%
Programmes for Hospital Improvement Hospital Waste Management Programme, Infection Control Program, Disaster Management Programme, Patient Safety Programme	20%
Quality Assurance in Hospital Aspects of Quality, Approaches to Quality Improvement, Quality Standards: NABH, JCI, NQAS; Key Performance Indicators in Hospital	20%

**Suggested books:**

- 1) Hospital Administration; By D C Joshi & Mamta Joshi, Jaypee Brothers Medical Publishers
- 2) Principles of Hospital Administration and Planning; By BM Sakharkar, Jaypee Brothers Medical Publishers