



# Shri Govind Guru University, Godhra

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## श्री गोविंद गुरु युनिवर्सिटी, गोधरा

(गुजरात ऐक्ट नं. २४/२०१५ द्वारा स्थापित)  
सरकारी पोलिटेक्नीक डेम्पस, गडुकपुर, गोधरा. ज़ि.पंचमहाल-३८६००१

### Ph.D. Entrance test Syllabus

#### (1) Ph.D. (Homoeopathy) Research Methodology Syllabus

- 1. Foundation of Research:** Meaning & Definition of Research, Purpose of conducting research, Utility of research in homoeopathy, Logic in research, Understanding language of research, Research process, Challenges in homoeopathic research, Ethical issues in research
- 2. Types of Research:** Exploring Research, Descriptive Research, Analytical / Relational / Causal, Basic / Fundamental research, Experimental Research, Quantitative research, Qualitative research
- 3. Planning of Research:** The planning process, Selection of a Problem for Research, Formulation of the Selected Problems, Hypothesis formation, Objective formulation
- 4. Research Design:** Descriptive research design, Cohort, Case Control design, Experimental research design
- 5. Sampling:** Concepts of Statistical Population, Sample, Sampling Frame, Sampling Error, Sample Size, Sampling methods: Probability & Non Probability
- 6. Review of Literature:** Sources & Types of data, Bibliography & References – methods
- 7. Biostatistics:** definition and scope, Variability, Measurements: (Nominal, Ordinal, Interval, Ratio)
- 8. Data Preparation & Analysis:** Data Preparation – Univariate and Bivariate analysis, Measures of Central Tendency, Measures of Dispersion, Tests of Significance Normal distribution & estimations, Confidence Interval, Type I & Type II errors, Parametric test (Z test, t test – Pair, unpaired, ANOVA) Non Parametric Test (Chi-square test, The Mann-Whitney U test, Wilcoxon matched pair test), Method based on Rank order (Spearman's rank correlation, Kendall's rank correlated coefficients)
- 9. Scientific writing:** Writing report, article, thesis, Plagiarism

#### Reference books:

- Research Methodology: Methods and Techniques by C. R. Kothari, New Age International Publishers, ISBN:81-224-1522-9
- Statistical Methods for Research Workers by Fisher R. A., Cosmo Publications, New Delhi ISBN:81-307-0128-6
- Medical Statistics – B K Mahajan
- K Park & Park – Park's Text book of preventive & Social medicine, Published by M/s Bhanarasi Bhanot Publisher, Jabalpur

## **(2) SUBJECT (HOMOEOPATHY):**

This section shall contain subject-related conventional Multiple Choice questions (MCQs), generally covering the topics given in the syllabus of Homoeopathic subjects : Homoeopathic Material Medica, Organon of Medicine & Philosophy, Homoeopathic Repertory as by the Central Council for Homoeopathy (CCH) in concerned under graduate degree course (B.H.M.S.) for Homoeopathy .