

National Institute of Technical Teachers Training and Research

Institution Deemed to be University under Distinct Category, A Centrally Funded Technical Institute

Ministry of Education, Government of India, Taramani, Chennai - 600 113, INDIA.

राष्ट्रीय तकनीकी शिक्षक प्रशिक्षण एवं अनुसंधान संस्थान

शिक्षा मंत्रालय, भारत सरकार, तारामणि, चेन्नई - ६०० ११३, भारत

Interpretation based on passages and data provided.

A total of 20 Multiple Choice Questions from the above content will be administered in the examination.

ENTRANCE EXAMINATION SYLLABUS – RESEARCH METHODOLOGY

The content covers key areas that are essential to assess comprehensive understanding of research methodology. Around 50 questions (Multiple Choice Question Type) will be administered in the entrance test.

1. Foundations of Research
 - Definition and Importance of Research
 - Types of Research:
Basic vs. Applied Research; Qualitative vs. Quantitative Research;
Experimental vs. Non-experimental Research
2. Research Design
 - Concept of Research Design
 - Types of Research Designs:
Exploratory Research Design; Descriptive Research Design; Experimental Research Design; Correlational Research Design
 - Sampling Techniques:
Probability Sampling; Non-probability Sampling
 - Hypothesis Formulation and Testing
3. Data Collection and Measurement
 - Sources of Data:
Primary Data; Secondary Data
 - Data Collection Methods:
Surveys and Questionnaires; Interviews; Observation; Experiments
 - Measurement Scales:
Nominal, Ordinal, Interval, and Ratio Scales
 - Reliability and Validity of Measurement
4. Data Analysis
 - Descriptive Statistics:
Measures of Central Tendency (Mean, Median, Mode); Measures of Dispersion (Variance, Standard Deviation, Range)
 - Inferential Statistics:
Hypothesis Testing; t-tests, ANOVA, Chi-Square Test; Correlation and Regression Analysis; Multivariate Analysis Techniques

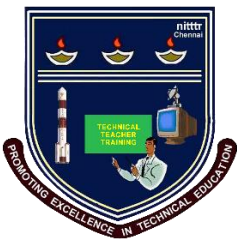
+91-44-2254 5446

admission@nittrc.edu.in

www.nittrc.ac.in

Extension Centres: Bengaluru, Hyderabad, Kalamaserry, Vijayawada





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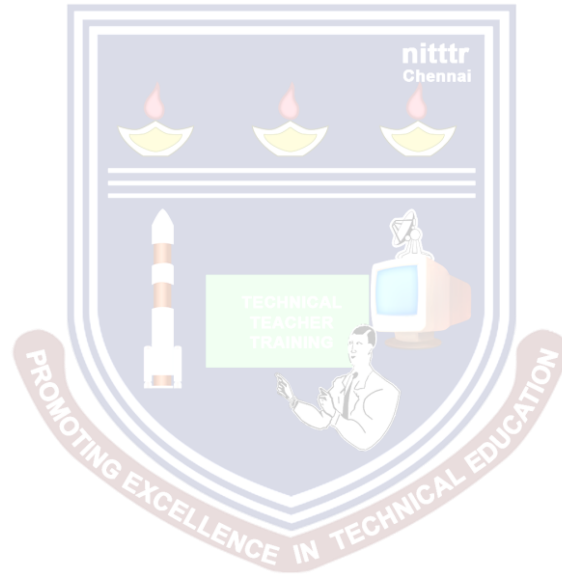
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5. Research Ethics

- Ethical Issues in Research:
Informed Consent; Confidentiality and Anonymity; Plagiarism
- Institutional Review Boards (IRBs)



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