

# PhD Programme in Enterprise Risk Management - Entrance Examination Syllabus

## SECTION A: Quantitative Aptitude & Analytical Reasoning

1. Set Theory, Probability & Statistics
  - 1.1. Sets, subsets, operations, Venn diagrams
  - 1.2. Probability basics, conditional probability, Bayes' theorem
  - 1.3. Random variables, distributions, and statistics fundamentals
2. Logical & Analytical Reasoning
  - 2.1. Deductive/inductive reasoning, data interpretation, analytical puzzles

## SECTION B: Strategic Thinking & Contextual Analysis

1. Business & Organisational Frameworks
  - 1.1. SWOT, PESTLE, Porter's Five Forces
2. Case-Based Analysis
  - 2.1. Scenario-based reasoning across business, policy, technology, and society
3. Systems Thinking
  - 3.1. Complex systems, interdependencies, cascading effects

## SECTION C: General Awareness & Global Developments

1. Global Economic & Financial Environment
  - 1.1. Macroeconomic trends, international institutions, digital finance
2. Governance, Public Policy & Regulation
  - 2.1. Key policy developments, governance issues
3. Science, Technology & Innovation
  - 3.1. AI/ML, cybersecurity, emerging tech, sustainability, biosecurity
4. Global Risk Landscape
  - 4.1. Themes from WEF Global Risk Reports, Allianz Risk Barometer, RBI Financial Stability Reports (including the Systemic Risk Surveys), IPCC Reports, cybersecurity indices, etc.