

UGC NET Paper 1 Syllabus PDF (by ugcnetpaper1.in)

Unit 1: Teaching Aptitude

Chapter 1—Teaching

- Concept of Teaching
- Definitions of Teaching
- Influential Teachers Who Revolutionised Education
- Nature and Characteristics of Teaching
- Maxims of Teaching
- Phases of Teaching
- Effective Teaching Behaviour
- Essential Teaching Competencies and Skills
- Teaching Modalities
- Level of Teaching
- Teaching Models

Chapter 2—Learning

- Concept of Learning
- Characteristics of Learning
- Aspects of Learning
- Types of Learners
- Learning Disorders
- Characteristics of Adolescent and Adult Learners
- Learning Theories
- Transfer of Learning

Chapter 3—Methods of Teaching in Higher Education

- Teacher-Centric Teaching Methods
- Learner-Centric Teaching Methods
- Teaching Strategies and Tools
- Cooperative Learning Strategies

Chapter 4—Teaching Support System

- What is the Teaching Support System?
- Benefits of Teaching Aids
- Factors Influencing the Selection of Teaching Aids
- Edgar Dale's Cone of Experience
- Types of Teaching Aids
- Offline and Online Modes of Teaching
- Digital Initiatives

- Teaching Software in Education

Chapter 5—Evaluation

- What is evaluation?
- Characteristics of Evaluation
- Functions of Evaluation
- Difference among Measurement, Assessment, and Evaluation
- Techniques of Evaluation
- Types of Evaluation
- Types of Evaluation Tests
- Choice-Based Credit System (CBCS)
- Differences between Syllabus and Curriculum

Unit 2: Research Aptitude

Chapter 6—Introduction to Research Aptitude

- What is research?
- Characteristics of Research
- Important Attributes of Research
- Research Paradigm
- Research Approaches

Chapter 7—Methods of Research

- Based on Type of Data
- Based on Logic
- Based on Mode of Enquiry
- Based on Purpose
- Based on Nature of Inquiry
- Based on Data Collection Method
- Based on Time Frame
- On the Basis of Application
- Other Types of Research

Chapter 8—Steps in Research Process

- Defining the Research Problem
- Reviewing Literature
- Identifying Variables
- Formulating Hypothesis
- Preparing the Research Design
- Selecting Samples
- Collecting Data
- Data Analysis and Hypothesis Testing

- Carrying out Generalization
- And Interpretation
- Writing the Research Report

Chapter 9—Thesis Writing and Research Ethics

- Thesis Writing
- Types of Research Publication
- Types of Research Gatherings
- Research Ethics
- Plagiarism
- Research Review and Peer Review
- Digital Initiatives in the Field of Research

Unit 3: Comprehension

Chapter 10—Comprehension

- Approaches to Solve Reading Comprehension
- How to Read the Passage Quickly?
- Recommended Strategy to Solve RC
- Different Types of Questions and How to Solve Them
- Common Mistakes to Avoid
- Solved Passages

Unit 4: Communication

Chapter 11—Introduction to Communication

- Meaning of Communication
- Nature and Characteristics of Communication
- Functions and Objectives of Communication
- Evolution of Communication
- Classroom Communication
- Characteristics of Effective Communication

Chapter 12—Process and Models of Communication

- Elements of Communication
- Barriers to Communication
- Process of Communication: Cole and Chan Model
- Models of Communication

Chapter 13—Types of Communication

- Based on Channels
- Based on Purpose and Style
- Based on Direction
- Based on Relationship
- Other Types of Communication

Chapter 14—Mass Media and Society

- Introduction to Mass Media
- Functions of Mass Media
- Theories of Mass Media
- Types of Mass Media
- Types of Audience
- Important Stages in Mass Communication
- Important Terms Related to Mass Media

Unit 5: Mathematical Reasoning and Aptitude

Chapter 15—Mathematical Reasoning

- Types of Reasoning
- Coding/Decoding
- Series
- Classification
- Blood Relations
- Directions
- Arrangement
- Calendar

Chapter 16—Mathematical Aptitude

- Fraction
- Ratios and Proportions
- Speed, Distance, and Time
- Percentages
- Profit and Loss
- Discounts
- Interest
- Age-Related Problems
- Averages

Unit 6: Logical Reasoning

Chapter 17—Introduction to Logical Reasoning

- Arguments and its Structure

- Types of Reasoning
- Attributes of Deductive Arguments
- Attributes of Inductive Arguments
- Types of Arguments
- Analogy

Chapter 18—Syllogism

- What is syllogism?
- What are propositions?
- Categorical Propositions
- What is inference?
- Methods to Draw Immediate Inference
- Methods to Draw Mediate Inference
- Parts of Categorical Proposition
- Chapter 19—Understanding Language and Logical Fallacies
- Use of Language
- Denotation and Connotation of Terms
- Types of Definitions
- Fallacies

Chapter 20—Indian Logic

- Introduction to Nyaya School
- Invalid Logic (Aprama or अप्रमा)
- Valid Logic (Pramana or प्रमाण)
- Inference (Anumana or अनुमान)
- Fallacies of Inference (Hetvabhasas or हेत्वाभास)

Unit 7: Data Interpretations

Chapter 21—Data Interpretation

- Graphical Representation of Data
- Principles Used in Solving Data Interpretation Questions
- Speed Up Your Calculations: Strategies to Solve Faster
- Solved Examples on Tables
- Solved Example on Bar Graph
- Solved Example on Histogram
- Solved Example on Line Chart
- Solved Example on Pie Chart
- Data Mapping
- Data and Governance

Unit 8: Information and Communication Technology (ICT)

Chapter 22—Introduction to ICT

- What is ICT?
- Generations of Computer
- Classification of Computers
- Components of Computers
- Input Devices
- Output Devices
- Modern Hardware Technology
- Central Hardware Technology
- Central Processing Unit (CPU)
- Memory

Chapter 23—Fundamentals of Computer Software and Programming

- Software
- Programming Language
- Number System and Conversion
- Data Representation
- File Format

Chapter 24—Evolution and Impact of the Internet

- Computer Network
- Hardware Requirements for Internet
- Types of Internet Connection
- Internet Protocols
- Terminology associated with Internet
- Services of Internet
- Computer Security
- Role of ICT in Education
- Role of ICT in Governance
- Popular Computer Abbreviations

Unit 9: People, Development, and Environment

Chapter 25—Introduction to People, Development, and Environment

- Fundamental of Environment
- Ecological Interactions
- Human and Environment Interaction

Chapter 26—Pollution

- Air Pollution
- Water Pollution
- Soil Pollution
- Noise Pollution
- Radioactive Pollution
- Environmental Waste

Chapter 27—Natural and Energy Resources

- Natural Resources
- Non-Renewable Sources of Energy
- Renewable Sources of Energy

Chapter 28: Natural Hazards and Disasters

- Types of Hazards
- Types of Prevention Measures
- Earthquake
- Tsunami
- Cyclones
- Volcano
- Floods
- Cloudburst
- Landslides
- Wildfires
- Drought
- Government Initiatives for Disaster Management

Chapter 29—Environmental Acts, Convocations, and Protocols

- International Agreements and Conventions
- Important Global Initiatives for Human Development
- Important Indian Government Initiatives

Unit 10: Higher Education System

Chapter 30—Ancient Indian Education System

- Introduction to Vedic Education
- Sources of Knowledge during Vedic Period
- Curriculum during Vedic Period
- Educational Process in Vedic Period
- Introduction to Jainism
- Introduction to Buddhism

- Ancient Universities
- Ancient Thinkers and Their Works

Chapter 31—Pre- and Post-Independence Commissions

- Pre-Independence Commissions
- Post-Independence Commissions
- Indian Education Reformers
- Important Universities and Colleges

Chapter 32—Structure of Higher Education in India

- Structure of Higher Education in India
- Policy-Making Bodies
- Regulatory Bodies
- Accrediting Bodies
- Types of Universities
- Types of Learning Programmes
- Open and Distance Learning (ODL) Programmes
- Types of Education
- Constitutional Provisions Related to Higher Education
- Planning Commission and NITI Aayog
- National Education Policy (2020)

Chapter 33: Digital Initiatives in Higher Education

- Digital Initiatives in the Field of Education