

 **HTET TGT Science Syllabus – Subject-Wise Details** **1. Physics Syllabus**

Physics questions are mostly **conceptual + numerical** and based on middle school science.

Important Topics:

- Motion & Laws of Motion
- Force, Pressure & Work
- Energy & Power
- Light: Reflection & Refraction
- Sound & Wave Motion
- Electricity & Magnetism (Basics)
- Heat & Temperature
- Gravitation
- Measurement & Units
- Simple Machines

 *Focus on daily-life examples and classroom teaching methods.*

 **2. Chemistry Syllabus**

Chemistry questions test **basic understanding of matter and reactions**.

Important Topics:

- Matter & Its Nature
- Physical & Chemical Changes
- Atoms & Molecules
- Acids, Bases & Salts
- Metals & Non-Metals
- Carbon & Its Compounds (Basics)
- Separation of Substances
- Chemical Reactions & Equations
- Fuels & Combustion
- Environmental Chemistry

 *NCERT-based conceptual clarity is key.*

 **3. Biology Syllabus**

Biology carries a **high weightage** and is often scoring.

Important Topics:

- Cell Structure & Functions
- Plant & Animal Tissues
- Life Processes
- Control & Coordination
- Reproduction in Plants & Animals
- Human Digestive, Respiratory & Circulatory System
- Heredity & Evolution (Basics)
- Microorganisms & Diseases
- Environment & Ecosystem
- Health, Hygiene & Nutrition

 *Diagrams and teaching approach questions are common.* **Science Pedagogy (Teaching Methodology)**

Apart from subject knowledge, **Science Pedagogy** plays a crucial role in the HTET TGT Science syllabus.

Key Areas:

- Objectives of Teaching Science
- Learning Outcomes in Science
- Child-Centered Learning
- Constructivist Approach
- Teaching Aids & Experiments
- Evaluation & Assessment Methods
- Lesson Planning
- Bloom's Taxonomy
- Addressing Learning Difficulties

 **Child Development & Pedagogy (Brief)**

- Growth & Development

- Learning Theories (Piaget, Vygotsky)
- Intelligence & Motivation
- Inclusive Education
- Classroom Management

✿ Language Section (Hindi & English)

- Grammar Basics
- Comprehension
- Vocabulary
- Teaching Methods of Language