

According to Uniform Curriculum Structure for Two Years B Ed  
Programme in WEST BENGAL following NCTE Regulations, 2014

# Pedagogy of LIFE SCIENCE

3rd SEMESTER • COURSE-VII (1.3.7B)

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# Syllabus

## Course-VII (B) (1.3.7B) PEDAGOGY OF SCIENCE (Part-II)

Theory: 50 Engagement with the field: 25 + 75\* ● Full Marks: 150

### Unit I: *Pedagogical Analysis:*

- Concepts and Methods of Pedagogical Analysis;
- The Pedagogical knowledge of the content from various classes (Class VI to VIII, IX-X,XI- XII) on the following items :
  - Breaking of Unit into Sub-unit with no. of Periods;
  - Previous knowledge;
  - Instructional Objectives in behavioural terms;
  - Sub-unit wise concepts
  - Teaching- Learning Strategies
  - Use of teaching aids
  - Blueprint for criterion reference test Items.

### Unit II: *Science Teacher:*

- Qualifications and qualities of Science Teachers
- Professional growth of Science Teacher

### Unit III: *Teaching skills:*

- Micro-teaching
- Simulated Teaching.
- Teaching in classroom situation
- Laboratory practical based demonstration skill.

### Unit IV: *Assessment of Science Learning:*

- Concept of assessment and evaluation;
- Concepts of Achievement Test and Identification of Test Items under various criterion like knowledge, understanding and application and skill.
- Construction of achievement tests and their administration.
- Preparation of a continuous and comprehensive evaluation plan for a particular class (VI to XII).

### Unit V: *Practicum & Activities in Science:*

- Importance of science activities
- Planning & Organization of field trip, project work, science quiz, excursion, science exhibition, science fair, aquarium, bird watching etc.
- Formation and activities of Science club in school.

### **Engagement with Field / Practicum:**

Any one of the following—

- One Pedagogical Analysis (Newly Added)
- Survey of science laboratory in a school
- Evolving suitable technique(s) to evaluate laboratory work
- Visit to Community Science Centre, Nature Park and Science City
- One Achievement Test Construction
- Conducting of Action Research for selected problems
  - \* Community-based Activities  
(vide details at the end of Semester-III syllabus)

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