Pedagogy of Physical Sciences

Objectives:

1. To discuss taxonomy of objectives of teaching physical science with special reference to behavioural changes in school students.
2. To elaborate basis for behavioural objectives in performance terms.
3. To help the pupil – teacher in development of lesson planning.
4. To introduce the pupil – teacher with different innovative methods of teaching physical science.
5. To develop organizational skills in pupil – teacher for setting the laboratories in schools.
6. To introduce pupil – teacher with the concept of evaluation, evaluation techniques and evaluation process in teaching of physical science.

UNIT-I  Lesson Planning and Unit Planning

1. Bloom’s taxonomy of educational objectives.
2. Principles for framing behavioural objectives and their characteristics.
3. Lesson Plan – its need and importance.
5. Concept of Unit Planning.

UNIT-II  Methods of Teaching Physical Science

1. Lecture Method.
2. Lecture – Demonstration method.
3. Project method.
4. Laboratory method.
5. Group Discussion method.
UNIT-III  **Laboratory and Teaching Aids**

1. Importance of Laboratory work.
2. Setting of Laboratory in schools.
3. Salient features of science labs.
4. Teaching aids and their importance for teaching physical science.
5. Importance of values in school science curriculum.

UNIT-IV  **Evaluation in Science Teaching**

1. Concept of evaluation in teaching of science.
2. Types of achievement tests.
3. Essay type test items – merits and demerits.
4. Objective type test items – merits and demerits.
5. Continuous and comprehensive evaluation (CCE).

**BOOKS RECOMMENDED:**