

PAPER-IV & V: PEDAGOGY OF A SCHOOL SUBJECT (PART-I)

(VI) TEACHING OF SCIENCE

SUBJECT CODE: EDUBED1104T SUBJECT CODE: EDUBED1105T
M.M. 50

External: 35, Internal: 15

(A) COURSE OUTCOMES

After completion of the course the student teacher will be able to:

- Understand the nature, scope values and objectives of teaching science at Secondary level.
- Develop competence in teaching different topics of science effectively.
- Develop scientific temper & provide teaching in scientific method to their student.
- Use various methods with appropriateness of content, level, and classroom situations to make pupil's learning meaningful.
- Utilize the instructional materials effectively in the teaching of Science.
- Organize Co-curricular activities & practical work in Science.

(B) SYLLABUS

SECTION-A

Nature and Significance of Science: Nature, scope, importance and value of science: Science as an integrated area of study: Science and modern Indian society: Relationship of science and society:

Aims and objectives of teaching science in elementary and secondary school: Bloom's

Taxonomy of educational objectives. Pedagogical analysis: Meaning and need, guidelines for conducting pedagogical analysis. Science curriculum: Meaning. Principles. Various approaches to science curriculum construction, developing learner-centred curriculum in science.

SECTION-B

Science textbook: Meaning, importance and qualities, a critical analysis of science text book of state board and NCERT.

(V) Learning Experiences and Teaching aids: Concept, Edgar Dale's Cone of Learning Experiences. Importance. Use and Classification of Teaching Aids, Integrating ICT in science teaching.

Activities (Any one of the following)

- (i) Writing instructional objectives in behavioural form for any five topics. (ii) Developing a low-cost teaching aid in Science
- (iii) Pedagogical analysis of any one topic.