

Course Code EDEC 227
SEMESTER-II
SCIENCE & TECHNOLOGY CONTENT & METHOD
Objectives : Student Teachers...

- 1 Develop an understanding of the nature and place of Science
 - a. Formulates instructional objectives in term of behavioral out comes.
- 2 Construct suitable tool of evaluation, understand, continuous and comprehensive evaluation and employ it for feedback and remediation.
- 3 Understand the teaching methods, approaches and techniques for teaching material.
- 4 Use appropriate educational technology and develops low cost teaching material.
- 5 Analyze and evaluate science syllabus and science textbooks.
- 6 Develop skills in organizing curriculum activities such as science club, science fair, science exhibition and field trips.

Unit:1 Content

Std- 9, Chapter no : All chapters from Std 9th Textbook of Semester 2
Std-10 Chapter no : 10, 11,12,13,14, 16,17,18

Unit:2 Assessment, Evaluation and Teaching aids and Non-formal Approaches

2. 1. Text book: Internal and external characteristics, Evaluation of text book.
2. 2. Concept Needs and characteristics of diagnostic test and remedial work.
2. 3. Concept and Needs of Blue print and construction of good Question paper.
2. 4. Teaching aids : Needs, Importance, types
2. 5. Development and preparation of self maid teaching aids.
2. 6. Selection and use of teaching aids.
2. 7. Non formal approaches of Science and technology teaching
 - (1) Aquarium
 - (2) Herbarium
 - (3) Observation of sky
 - (4) Planetarium

Unit:3 Co-Curricular activities for Science and Technology

1.1 Co. curricular activates:

- (1) Science club
- (2) Science fair
- (3) Science exhibition
- (4) School botanical garden.

1.2 Science Laboratory:

- (1) Management and Safety
- (2) Designing a Science laboratory
- (3) Laboratory equipment.

1.3 References and Journals in Science and technology teaching.

Unit:4 Field Work (Any one of the following)

1. Construction and Planning of Science Club.
2. Participation in Science Fair or Visit and report of Science fair organized at taluka, district and State level
3. Evaluation (External and Internal) of Text Book.
4. Visit and evaluation of School Science Laboratory.
5. Collection and exhibition of Scientific information from Science periodical
6. Visit to place of Scientific interest like (Science city, Community Science Center, Dairy, Industrial Unit, agriculture university, petroleum university)
7. Collection of latest information on Science from internet.
8. Any other science and technology related activities