

# **BED 106-08: UNDERSTANDING DISCIPLINES AND SCHOOL SUBJECTS: GENERAL SCIENCE**

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# WEIGHT AGE

- ⦿ Total 02 Credits
- ⦿ Total Units 02
- ⦿ Means 1 Unit = 1 Credit
- ⦿ 1 Credit = 16 hours learning load
- ⦿ 2 Credits = 32 Hours Learning Load
- ⦿ It includes classroom teaching- learning Process and Home work, learning load.
- ⦿ Marks 50= 40 External and 10 Internal

# OBJECTIVES:

◉ To enable student teacher to

1. understand nature, scope & importance of general science at secondary level.
2. analyze the textbook& content of general science at secondary level.
3. Understand life on the earth.
4. Understand the basic concepts of different branches of chemistry.
5. Understand concepts in Physics.
6. familiarize facts, terms, concepts , laws & principles in general science.

# UNIT - I (1 CREDIT)

## ⦿ A) Life on Earth

1. Cell: The Unit of Life
2. Genetic Basis of inheritance
3. Plant and Animal Life
4. Organ System (only humans)

# B) CONCEPTS OF CHEMISTRY

- ⦿ Chemistry of Carbon Compounds - Hydrocarbons
- ⦿ Metals and Non-metals
- ⦿ Chemical Reactions and Chemical Equations

# UNIT - II (1 CREDIT)

## ⦿ A) Concepts in Physics

1. Motion, Energy and Force
2. Heat and Light
3. Electric Current and Magnetism
4. Sound and Wave

# B) ENVIRONMENTAL SCIENCE

1. Biodiversity and Ecosystem
2. Microorganism
3. Striving for a better environment - Waste Management, Vermin-compost pit
4. Conservation of Resources

# MODE OF TRANSACTION:

- ◉ Discussion cum Lecture
- ◉ Demonstration
- ◉ Seminar
- ◉ Project based approach
- ◉ Field visit
- ◉ Technology based interaction



# PRACTICAL (ANY ONE OF THE FOLLOWING):

- ⦿ Textbook Analysis (General Science)
- ⦿ Visit of a Science Laboratory
- ⦿ Investigatory Project/ Model

# LIST OF BOOKS RECOMMENDED:

- ⦿ The text books and the reference books which are prescribed by the Maharashtra State Board of Secondary and Higher Secondary Education are recommended for study.

# FEEDBACK

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# THANK YOU