NSS Biology Curriculum

1. The cell
   - Chemicals of life
   - Discovery of cells
   - The basic structure of a cell
   - Cell activities
   - The cell as a basic unit of life
2. Organisms and their environment
   - Diversity of organisms
   - Classification
   - The ecosystem
   - Energy flow within an ecosystem
   - Cycling of materials
   - Ecological interdependence of organisms
   - Human impacts on the environment
   - Environmental protection
3. Energetics
   - Photosynthesis
   - Respiration
4. Obtaining essential for life
   - Nutrition ,gas exchange ,water relation ans transport in plants
   - Nutrition ,gas exchange and transport in humans
5. Coordination and response
   - Detecting environmental conditions
   - Nervous coordination in humans
   - Hormonal coordination in humans
   - Locomotion in humans
   - Growth responses of plants
6. Regulation and defence
   - Concept of homeostasis
   - Osmoregulation and excretion
   - Regulation of body temperature
   - Regulation of glucose level in blood
   - Defence against diseases
7. Reproduction and growth
   - Types of cell division
   - Asexual reproduction
   - Sexual reproduction in flowering plants

Sexual reproduction in humans
Growth and development

8. Genetics and evolution
   Genes and inheritance
   The pattern of inheritance
   Variations
   Genetic engineering
   Evolution
9. Elective I : Human physiology
   Regulation and control
10. Elective II : Applied ecology