

Subject Code: 2SC1000121	Subject Title: EVOLUTION OF LIFE
Course Type: Subjective Elective	

Course objective: This course is designed to enable students to acquire knowledge about earth atmosphere earth development and life evolution.

Teaching scheme (hours) per week		Credit			Theory Marks		Practical Marks		Total
Theory	Practical	Theory	Practical	Total	Uni. Assessment	Cont. Assessment	Uni. Assessment	Cont. Assessment	
2	--	2	--	2	35	15	--	--	50

A. Subjective Elective Theory:

Unit	Content	Lectures	Weight (%)
1	✓ Theory of inheritance of acquired characters(Lamarkism) ✓ Examples of Lamarkism, critical analysis of Lamark's Propositions ✓ Neo Lamarkism: Theory of natural selection (Darwinism) ✓ Facts that influenced Darwin's thoughts ✓ Pangenesis Hypothesis ✓ Darwin- Wallace theory of Natual selection ✓ Critical Analysis of Darwinism ✓ Neo Darwinism ✓ Maturation of NeoDarwinism in to Mordern Synthesis ✓ Mordern Synthetic Theory ✓ Weismann's Germ Plasm Theory ✓ Mutation Theory- Characteristics of Mutation Theory ✓ Advantages of Mutation Theory, Objections to Mutation Theory	15	50
2	✓ Isolation: Concept of Isolation, Mechanism of Isolation, Factor responsible for isolation, Types of Isolation. ✓ Reproductive isolation, Types of Reproductive isolation, Role of Reproductive isolation in species formation. ✓ Adaptation: Concept of Adaptation, Types of Adaptation ✓ Adaptation and predators, adaptation and population.	15	50

Learning Outcome: Development of knowledge of the evolution of earth and life.

Reference book:

1. Animal Cytology and Evolution – MJD, White Cambridge University Publications
2. Cell Biology & Molecular Biology, Verma & Agarwal
3. Cell Biology, T. Devasena

