

Course Title	Basic Plant Science			Course Code	BST 11023		
Year	1	Semester	1	Credits	03	Theory (hr)	30
						Practical (hr)	30
						Independent Learning (hr)	

Aim of the Course:

To provide the basic knowledge on plant science to understand the importance of biological systems for the betterment of life

Intended Learning Outcomes:

After completion of this course, the learner should be able to:

- Explain the origin and the diversity of the plant kingdom.
- Describe the chemistry and biology of a cell.
- Describe the importance of reproduction at cellular and plant level in the continuity of life.
- Distinguish metabolic and catabolic reactions vital in the plant growth and development.
- Describe sexual and asexual reproduction methods in plants.

Course Capsule:

Theory
Origin of life; Chemistry of life; Plant diversity – diversity of algae, fungi, bryophytes, gymnosperms and angiosperms; Morphological diversity of higher plants (diversity of stems, leaves, roots); Plant classification; Biology of the cell; Cellular reproduction; Autotrophic nutrition; Energy utilization in plants; Plant structure; Growth and development; Sexual reproduction and seeds; Asexual reproduction in flowering plants; Economic and agricultural importance of plants to people

Practical
Use of the microscope; Plant diversity; Plant morphology (morphology of leaves, stems, flowers and roots); Construction of a dichotomous key; Plant structure (structure of leaves, stems, flowers and roots); Plant growth (height, fresh and dry weights); Seeds , Asexual reproduction

Assessment:

Continuous assessment: 30%
End semester assessment: 70%