



Code	Subject Title	Cr. Hrs	Semester
BOT-312	Plant Anatomy (Advance Course) Lab	1	VI
Year	Discipline		
3	Botany		

Syllabus Outline: Concept of Leaf Vascular Bundle, Mesophyll Tissue Distribution, Primary Structure of Root, Stem and Leaf, Structure of Wood.

Course Outline: Study of Tissues from the Living and Preserved Material of Stems, Roots and leaves.

Module Aims: This course is designed to provide understandings about Primary and Secondary Plant Body, Secondary Growth and Primary and Secondary Anomalous Structures in plants, Leaf, Stem, Root and Flower Anatomy, Basic Structure of Root, Stem and leaf, and Wood Structure.

Learning Strategies:

1. Lectures
2. Group Discussion
3. Laboratory work
4. Seminar/ Workshop

Learning Outcome: Student will be able to understand the Tissues Arrangement in Root, Stem, Leaf and Secondary Plant Body.

Assessment Strategies:

1. Lecture Based Examination (Objective and Subjective)
2. Assignments
3. Class discussion
4. Quiz
5. Tests

Books Recommended:

1. **Evert, R.F. (2006).** *Esau's Plant Anatomy*. John Wiley and Sons, Inc., New York.
2. **Fahn, A. (2001).** *Plant Anatomy*. (5th Ed.), Ergamon Press, Oxford.
3. **Dickinson, W.C. (2000).** *Integrative Plant Anatomy*. Academic Press London.
4. **Esau, K. (2000).** *Anatomy of Seed Plants*. John Wiley and Sons, Inc., New York.
5. **Robson, N.K.B., Cutler, D.F. and Gregory, M. (2000).** *New Research in Plant Anatomy*. Academic Press, London.
6. **Eames, E. (1990).** *An Introduction to Plant Anatomy*. McGraw Hill Book Co. Inc., New York.