

Course code	Course Title	C	H	I	E	T
17U3BAC3	PLANT ANATOMY	2	2	25	75	100

Unit I **6 Hrs**

Meristem - types, classification and theories - Histogen and Tunica-Corpus.

Unit II **6 Hrs**

Tissues - definition, types - simple - paranchymatous and sclerenchymatous and complex - xylem and phloem.

Unit III **6 Hrs**

Primary anatomical structures of a typical dicot stem and root, monocot stem and root.

Unit IV **6 Hrs**

Vascular cambium - structure and function, seasonal activity, secondary growth in Dicot stem and root. Wood - sap wood and heart wood.

Unit V **6 Hrs**

Leaf anatomy: A typical dicot leaf E.g, *Nerium* and monocot leaf E.g, Grass.

REFERENCES

1. Esau - Plant Anatomy
2. Fahn - Plant Anatomy
3. B.P.Pandey - Plant Anatomy

PRACTICALS

1. Shoot and Root apex.
2. Primary structure of root and stem.
3. Secondary structure of normal root and stem.
4. Leaf- *Nerium* and Grass.