Course code	Course Title	C	Н	I	E	T
17U4BAC4	GYMNOSPERMS AND ANGIOSPERMS	2	2	25	75	100

Unit I Gymnosperms

5 Hrs

Introduction, general features and economic importance of Gymnosperms.

Unit II 6 Hrs

Structure, reproduction and life cycle of Cycas.

Unit III Angiosperms

6 Hrs

Leaf - Simple and Compound. Phyllotaxy - a) Alternate b) Opposite c) Ternate d) Whorled.

Inflorescence: Racemose – raceme and spike. Cymose – cyme and monochasial.

Unit IV 5 Hrs

Flower - Description of a typical dicot (e.g., *Hibiscus*) and monocot flower (e.g., Grass). Floral diagram & floral formula.

Unit V 8 Hrs

Taxonomy - Vegetative, floral characters & Economic importance of Fabaceae, Cucurbitaceae and Poaceae.

REFERENCES

- 1. B.Pandey- College Botany, Vol. III
- 2. S.P.Bhatnagar and Alokmirta- gymnosperms.
- 3. Lawrence- Taxonomy of Angiosperms.
- 4. Sharma, O.P- Angiospems of Taxonomy.
- 5. B.P.Pandey- Taxonomy of Angiosperms.

PRACTICALS

- 1. Make suitable preparations, description and identification of the types prescribed in Gymnosperms.
- 2. Observation of morphological features of plants discussed in the syllabus.
- 3. Dissection and description of the families discusses in the syllabus.
- 4. Submission of Records.