B. Sc. (Botany) SEMESTER-II

Paper-II

(Morphology of Angiosperms and Floriculture)

UNIT-I

Vegetative Morphology:

1. **Root:** Tap root and adventitious root, modification of root for storage and respiration
https://youtu.be/A5ejUncQrLQ?si=ceY7Fz-boGmXA0uY

2. **Stem:** Shape, surface, and nature. Branching (Monopodial and Sympodial), Modification of stem (Runner, Rhizome, Tuber, bulb)
https://youtu.be/89vcS5tQwTA?si=Bj9DKFz82px2wWga

3. **Leaf:** Typical leaf, Types (Simple and Compound), Types of phyllotaxy, Venation, Modification of leaf (Tendril, Phyllode)
https://youtu.be/zpP9VVchVmc?si=hrBjEffvaBqlsOu4

UNIT-II

Reproductive Morphology:

1. **Inflorescence:** Definition, Racemose, Cymose and Special types
https://youtu.be/DvwoYf6zm6k?si=2O8LykZTMFY7nV2j

2. Flower: Definition, Structure of Typical flower, Variation in thalamus (Androphore, Gynophore and Gynandrophore)

3. Calyx and corolla: Cohesion. Forms of corolla and Aestivation.

4. Androecium: Parts, Cohesion, Adhesion and Fixation.

UNIT-III

Carpel and Fruit:

Gynoecium: Parts, Cohesion, Adhesion and Placentation.

https://youtu.be/7943hVW-r7Y?si=1bkwnVGLJD-Iw1zJ

Fruit: Defination, Pericarp, Types of traits: Simple (Dehiscent, Schizocarpic, Dry Indehiscent, Fleshy Indehiscent), Aggregate (Etaerio) fruits, Composite Fruits (Sorosis and Syconus).

https://youtu.be/7erpBQmprjY?si=SolYMpu6F3val2tX

UNIT-IV

Skill Development: Floriculture:

1. **Floriculture:** Definition, commercial aspects
https://youtu.be/VIINZ1Q_CsY?si=fGZVlzmCch0ck_An

2. Methods of cultivation of: Important cut flowers such as Carnation
https://youtu.be/Qvrlqegmqk8?si=X0YDp-h413qknONN

 Asters

https://youtu.be/uYiMZUbCNaI?si=yLGoM-RlKDXQXyuu

 Gerbera

https://youtu.be/MjI69kNI2dI?si=kR2VMdWxkJ8AYXx1

 Dahlia

https://youtu.be/l1eYjM7vq9E?si=M1TtwJRgEMW62dcS

Marigold with reference to soil type, sowing pattern, weather condition, irrigation regime, fertilizers and harvesting.Diseases and control measures.

https://youtu.be/2d9b54NDda8?si=qgpIBhm3i_663ddL