

**PROGRAMME: MASTER OF SCIENCE BOTANY (MSCBOT-21)**

**Semester: Second**

**Course code: MSCBOT-508**

**COURSE NAME: PLANT DEVELOPMENT**

**BLOCK-1-PLANT DEVELOPMENT: BASICS ASPECTS**

- Unit-1 Tissue System
- Unit-2 Vascular System
- Unit-3 Stomata and Trichomes

**BLOCK-2-SECONDARY GROWTH**

- Unit-4 Wood development and Nodal anatomy
- Unit-5 Anatomy of Leaf and Root of Monocots and Dicots
- Unit-6 Anatomy of Stem in Monocots and Dicots, and C<sub>3</sub> and C<sub>4</sub> plant leaves

**BLOCK-3-ANOMALOUS GROWTH**

- Unit-7 Root-stem transition, Shoot and Root development
- Unit-8 Anomalous secondary growth in Monocot and Dicot stems and roots
- Unit-9 Cytological and molecular analysis of shoot and root apical meristems (SAM & RAM)