SYLLABUS-BOTANY PROGRAMME (B.Sc.-II year)

COURSE- I: TAXONOMY OF ANGIOSPERMS AND BIODIVERSITY (BSCBO-201)

UNIT SCHEDULE

BLOCK-1- ANGIOSPERMS: GENERAL CONSIDERATION

- **Unit-1-** Historical background and Evolution of Classifications: Classification proposed by Bentham and Hooker, Engler and Prantl and Hutchinson of Angiosperms
- **Unit-2-** Basic principles, plant nomenclature and International code of Botanical nomenclature (ICBN) History, Principles and Applications
- **Unit-3-** Tools and techniques in Collection and Preservation of specimens: For herbarium and Museum
- **Unit-4-** Botanical gardens and Herbaria: A brief idea of Botanical Survey of India (BSI)

BLOCK-2- FAMILIES

- **Unit-5** Systematics, Distinguishing Characters, Important genera and Economic importance of the Families: Ranunculaceae, Caryophyllaceae, Rutaceae
- **Unit-6-** Systematics, Distinguishing Characters, Important genera and Economic importance of the Families: Rosaceae, Fabaceae and Asclepiadaceae
- **Unit-7-** Systematics, Distinguishing Characters, Important genera and Economic importance of the Families: Solanaceae, Acanthaceae and Lamiaceae
- **Unit-8** Systematics, Distinguishing Characters, Important genera and Economic importance of the Families: Orchidaceae, Liliaceae, and Poaceae

BLOCK-3-BIODIVERSITY AND CONSERVATION

- **Unit-9-** Biodiversity-Basic concept: Biodiversity at Global and National level, Threats to Biodiversity
- **Unit-10-** Biodiversity Conservations: *In situ* (Biosphere Reserves, National Parks and Sanctuaries) and *Ex situ*, Gene bank, NBPGR
- **Unit-11** Biodiversity- Hotspots and Megabiodiversity Countries: Global biodiversity hotpots, India as mega-biodiversity countries
- **Unit-12-** Floristic diversity of India and Endemism: Floristic Regions of India, Flora and Vegetation, Endemism.