

SARDAR PATEL UNIVERSITY
Programme: BSC (BOTANY)
Semester: III
Syllabus with effect from: June 2012

Paper Code: US03EBTN01	Total Credit: 2
Title Of Paper: Fundamentals of Botany	

Unit	Description in detail	Weighting (%)
1	Phycology and Mycology Classification ,distribution, morphology and life cycle of : Chara ,Vaucheria Economic and industrial importance of algae. Classification , distribution , morphology and life history of : Alternaria, Puccinia Economic importance of fungi	
2	Bryophytes and Pteridophytes Classification, morphology, anatomy and reproduction of: Marchantia, Polytrichum and Selaginella. Types and evolution of stele in Pteridophytes.	
3	Gymnosperms and Angiosperms Distribution, morphology, anatomy and reproduction of Pinus. General Characters, Example and Economic importance of Labiateae, Rubiaceae. Myrtaceae. Secondary growth in Dicot stem and root.	
4	Economic Botany: (Brief note on economically important plants) Plants for food- Cereals, rice and wheat; Pulses- Gram and Mung. Fibers- Cotton, Jute; Oil- Mustard and Ground nut ; Beverages: Tea and Coffee ; Timber Yielding- Teak and Sal.	

Basic Text & Reference Books:

- College Botany Vol 2 : Gangulee and Kar
- College Botany Vol.1, 2, 3, B. P. Pandey.
- Text Book of Algae, B. R. Vasistha.
- Text Book of Fungi, B. R. Vasistha.
- Text Book of Bryophyta, B. R. Vasistha.
- Text Book of Pteridophyta, B. R. Vasistha ; N. S. Parihar.
- Text Book of Gymnosperms. P.C. Vasistha.
- College Botany Vol 3: Sushil Kumar Mukherjee, New Central Book Agency. Calcutta.
- Economic Botany O. P. Sharma.
- Angisperms, Embryology and economic Botany: Singh, Pandey and Jain.

