

Course: B.Sc. in Forestry

Syllabus Objectives and Outcome

SEMESTER – I

PAPER I: PRINCIPLES AND PRACTICES OF SILVICULTURE

Objective: To provide knowledge about forest and forest types, different forest tree species, vegetation forms and forest regeneration.

Outcome: After the end of the course, the students will be able to identify forest and other tree species, their distribution, and associated vegetation. This will also help to understand the components and dynamics of forest or different forest types.

PAPER II: FUNDAMENTALS OF SOIL SCIENCE

Objective: To provide knowledge about soil and its major components and their properties which is responsible for vegetation growth and relationship with environment. Apart from this the course will expose the student about soil formation processes, and its role in various crop productions for food and climate security.

Outcome: After the end of the course, the students will be able to understand the soil processes which maintain, soil –water relationships, nutrients availability and soil fertility in forest soils. The student will also be able to acquire knowledge of soil testing and sustainable management of soil resource.

PAPER III: BASIC MATHEMATICS

Objective: To provide knowledge about simple functions of basic mathematics for forest study

Outcome: After the end of the course, the students will be able to understand the interpretation of quantitative information from formulas, graphs, tables, schematics, simulations, and visualizations, and their application in forest related issues. They will be able to solve forest related problems using arithmetical, algebraic, geometrical, statistical, or computational methods. They can also apply various types of differentiation and integration for forest analysis.



PAPER IV: ENGLISH COMMUNICATION

Objective: To provide knowledge about English communication to solve the problems of translation, speaking, writing and good presentation.

Outcome: After the end of the course, the students will be able to communication in English. They can prepare and deliver effective oral presentations and clearly express their views, arguments, rhetorical form, and ideas at global platform.

SEMESTER – II

PAPER I: INTRODUCTORY BOTANY

Objective: To provide the basic knowledge of morphology and anatomy of various parts of higher plant and concept of alternation of generation of in lower plant.

Outcome: The students will able to understand the morphological and anatomical features of higher plants as well as the significance of alteration of generation in both group of plants.

PAPER II: FOREST ECOLOGY AND BIODIVERSITY CONSERVATION

Objective: To develop knowledge about ecological aspects of forest resource and biodiversity conservation.

Outcome: After the completion of this course, the learner will be able to understand ecological principles and concepts including the structure and function of ecosystems and existing biodiversity and their role in human welfare.

PAPER III: FUNDAMENTALS OF WILDLIFE

Objective: To give the understanding about diversity and strategies of conservation of wildlife in forest area.

Outcome: Its purpose is to provide basic knowledge of wildlife and to promote the conservation of living resource for forest ecosystem and human being.

PAPER IV: ENVIRONMENTAL STUDIES

Objective: To give the understating about environment and their role for the society.



