ADIKAVI NANNAYA UNIVERTSITY:: RAJAMAHENDRAVARAM
B. Sc. Forestry Syllabus (w.e.f: 2020-21 A.Y.)
B. Sc Semester – I Credits: 04

Course: 1 Introduction to Forestry Hrs/Wk:04

Learning Outcomes: On successful completion of this course, the students will be able to:

Understand the history and importance of forests and forestry in relation to products and
climate.

¬ Identify, classify and explain the features of forests in India.

¬ Discuss the soils in forests and the process of soil formation.

¬ Demonstrate skills on determination of physico-chemical characteristics of soil.

¬ Explain the biotic and abiotic components of the forest ecosystem.

¬ Acquire critical knowledge on methods to estimate primary productivity.

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Course: 1(L) Practical-1 Hrs/Wk:02

Practical syllabus of Forestry Core Course – 1/ Semester – I

Introduction to Forestry

(Total hours of teaching – 30 @ 02 Hrs./Week)

Learning Outcomes: On successful completion of this practical course, student shall be able to:

¬ Identify and classify the resources and products of forests.

¬ Demonstrate skills on various methods to estimate physico-chemical methods of soils.

¬ Identify and classify the biotic and abiotic components in the forest.

¬ Estimate primary productivity

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B. Sc. Forestry Syllabus (w.e.f: 2020-21 A.Y.)
B. Sc Semester – II Credits: 04

Course: 2 Silviculture, Wood Anatomy and Dendrology Hrs/Wk:04

Learning Outcomes: On successful completion of this course, the students will be able to:

¬ Understand the concept of silviculture and factors influencing it.

¬ Explain various cultural operations in developing a forest.

¬ Acquire a critical knowledge on formation of wood and its characteristic features.

¬ Discuss different aspects related to dendrology – plant products.

¬ Demonstrate skills on determining the quality of wood.

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Course: 2(L) Practical - 2 Hrs/Wk:02

Learning Outcomes : On successful completion of this practical course, student shall be able to:

1. Identify and classify different forest trees and shrubs of their locality.
2. Demonstrate skills on planting methods.
3. Acquire skills on analyzing micro- and macroscopic features wood to identify specific
timber yielding plant species.
4. Measure the timber and calculate the yield.

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B. Sc. Forestry Syllabus (w.e.f: 2020-21 A.Y.)
B. Sc Semester – III Credits: 04
Course: 3 Forest Protection Hrs/Wk:04

Learning Outcomes: On successful completion of this course, the students will be able to:

¬ Understand the causes of forest fires and their control methods.

¬ Discuss the human activities causing damage to forests.

¬ Explain the weed and disease management in forestry.

¬ Identify and classify the diseases of forest plants.

¬ Explain the pests in forests and their control methods.

¬ Acquire critical knowledge on forest protection.

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Course: 3(L) Practical-3 Hrs/Wk:02

Practical syllabus of Forestry Core Course – 3/ Semester – III

Forest Protection(Total hours of teaching – 30 @ 02 Hrs./Week)

Learning Outcomes: On successful completion of this practical course,student shall be able to:

¬ Handle the fire-fighting machinery.

¬ Identify the organisms responsible for spoilage of forest plants.

¬ Identify and classify the plant pathogens and pests in forests.

¬ Isolate the soil fauna from forests.

ADIKAVI NANNAYA UNIVERTSITY:: RAJAMAHENDRAVARAM
B. Sc Semester – IV Credits: 04
Course: 4 Wild life Biology Hrs/Wk:04

Learning Outcomes: On successful completion of this course, the students will be able to:

¬ Understand the significance and value of wildlife.

¬ Discuss the threats to wildlife and management.

¬ Acquire a critical knowledge on methods used in wildlife census.

¬ Discuss in-situ and ex-situ methods of wildlife conservation.

¬ Acquire skills on captive breeding techniques.

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B. Sc Semester – IV Credits: 01
Course: 4(L) Practical - 4 Hrs/Wk:02

Learning Outcomes: On successful completion of this practical course, student shall be able to:

1. Collect data on wild animal population in a forest.

2. Demonstrate skills on identifying the animal based on pug-mark.

3. Acquire knowledge on diseases of wild animals and their treatment.

4. Track the movements of wild animals

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B. Sc. Forestry Syllabus (w.e.f: 2020-21 A.Y.)
B. Sc Semester – IV Credits: 04
Course: 5 Forest Ecology and Biodiversity Conservation Hrs/Wk:04
Learning Outcomes: On successful completion of this course, the students will be able to:

¬ Understand the significance and value of wildlife.
¬ Discuss the threats to wildlife and management.
¬ Acquire a critical knowledge on methods used in wildlife census.
¬ Discuss in-situ and ex-situ methods of wildlife conservation.
¬ Acquire skills on captive breeding techniques.

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B. Sc Semester – IV Credits: 01
Course: 5(L) Practical - 5 Hrs/Wk:02

Learning Outcomes: On successful completion of this practical course, student shall be able to:

1. Perform skills on basic ecological methods to study a forest community.
2. Demonstrate skills determining biodiversity indices.
3. Acquire knowledge on biomass and litter in a forest area.
4. Decide the number and size of quadrat to study an area.