

Generic Elective
PLANT DIVERSITY AND HUMAN WELFARE

Course structure-

Course Title & Code	Credits	Credit distribution of course			Prerequisite of the course
		Theory	Tutorial	Practical/Practice	
Plant diversity and human welfare	02	01	-	01	Nil

Credit scheme-

Course credits- 2 Credits

No. of hours per week: 2 hrs

Total no. of teaching hours: 30 Hrs.

Examination Scheme-

Total marks of End semester Exam. -

50

Internal Assessment -

Nil

Maximum Marks-

50

Minimum Marks -

18

Time Duration-

2 hrs

Paper pattern-

Attempt all questions

Part –I: Question 1-10 very short answer type question carry 1 marks- 10 marks

Part –II: Question 11-15 Short question type questions carry 4 marks- 20 marks

Part – III : Question 16-17 long answer type question carry 10 marks- 20 marks

Domain skills expected to achieve:

1. To make students familiar with the different kinds of plants in surrounding environment.
2. To create awareness of biodiversity loss and conservation due to anthropogenic activity.
3. To provide the information related to significance of plants for human welfare.

Syllabus

Plant diversity

(15hrs)

Unit-I

Introduction of plant: classification of plants based on habitat, nutrition. classification of angiosperm on the basis of habit (size, shape ,forms) , life span and economic uses.

Biodiversity loss, Values and uses of biodiversity. Biodiversity Awareness: legislation and conservation programme.

Role of plants in relation to Human Welfare

(15 hrs)

Unit-II

Importance of Agriculture and horticulture

Importance of forestry, their utilization and commercial aspects

a) Avenue trees

b) Ornamental plants of India

c) Petro crops

d) Fruits, vegetable and nuts: Important fruit crops their commercial importance.

e) Wood, fiber and their uses. Important medicinal plants of Rajasthan

Suggested Readings:

1. Krishnamurthy, K.V. (2004). An Advanced Text Book of Biodiversity - Principles and Practices. Oxford and IBH Publications Co. Pvt. Ltd. New Delhi.
2. Singh, J. S., Singh, S.P. and Gupta, S. (2006). Ecology, Environment and Resource Conservation. Anamaya Publications, New Delhi.
3. Sen, S. 1992 Economic Botany. NCBA Calcutta

Outcomes of Course-

1. Study of flora and its diversity in the college campus or local area (wild and exotic species) help in Identification of plants species with their uses.
2. Study of conservation efforts promotes awareness of biodiversity loss and its consequences in future.
3. Identification of forest trees based on the characteristics of bark, flowers and fruits.
4. Identification of different medicinal plants of Rajasthan with their uses.
5. Identification of different kinds of fruits, vegetables and nuts with economic importance
6. Identification of avenue tree, ornamental helps in making environment full of Aesthetic value.