

Syllabus for Bachelor of Agriculture

HORTICULTURE

Subject code: 16AS0208

Subject Name: **Production technology for fruit and plantation crops**

B. Sc. (Hons.) Agri., **First Year (Sem.-II)**

Objective:

To create the awareness among the students about importance of fruit as well as plantation crops in India

Credit Earned: 1+1= 2 Credits

Course Outcomes:

After completion of this course, student will be able to:-

- 1 Know the scope of fruit and plantation crop Industries in India
- 2 Know the production technology of fruit and plantation crops

Teaching and Evaluation Scheme

Teaching Scheme (hours)		Credits	Theory Marks			Practical Marks		Total Marks
Theory	Practical		ESE (E)	IA	CSE	Viva (V)	Term Work (TW)	
1	2	2	50	30	20	25	25	150

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Contents:

Unit	Topics	Contact Hours
Theory		
1.	Importance and scope of fruit and plantation crop industry in India	
2.	High density planting	
3.	Use of rootstocks	
4.	Production technologies for the cultivation o major fruits- Mango	
5.	Banana	
6.	Citrus	
7.	Grape	
8.	Guava	
9.	Papaya	
10.	Apple	
11.	Pomegranate, sapota and custard apple	
12.	Minor fruits: Jackfruit, strawberry	
13.	Pineapple, ber and jamun	
14.	Plantation crops- Major- Coconut, arecanut & cashew	
15.	Minor- tea, coffee and rubber	

Unit	Topics	Contact Hours
Practical		
1.	Description and identification of important varieties of fruit and plantation crops	
2.	Seed propagation	
3.	Scarification and stratification of seeds	
4.	Propagation methods for fruit and plantation crops including Micro-propagation	
5.	Description and identification of fruit	
6.	Preparation of plant bio regulators and their uses	
7.	Physiological disorders of fruit and plantation crops	
8.	Visit to commercial orchard	

Reference Books:

- 1 Fruit Part I and II
Bose, T.K.

Instructional Method:

- a. The course delivery method will depend upon the requirement of content and need of students. The teacher in addition to conventional teaching method by black board may also use any of tools such as demonstration, role play, quiz, brainstorming, MOOCs *etc.*
- b. The internal evaluation will be done on the basis of continuous evaluation of students in the class-room.
- c. Practical examination will be conducted at the end of semester for evaluation of performance of students in laboratory.
- d. Students will use supplementary resources such as online videos, NPTEL videos, e-courses, Virtual Laboratory.