

**FOUR YEAR UNDERGRADUATE PROGRAMME (FYUGP)
DETAILED SYLLABUS OF 2ND SEMESTER**

Title of the Course: Poly House and Protective Cultivation

Nature of The Course : Skill Enhancement Course (SEC241)

End Semester: 80 Marks (60T+20P)

In Semester: 20 Marks

Course outcome:

- 1) The training program aims to develop an overall understanding of polyhouse cultivation and to offer knowledge on various crops which can be cultivated in polyhouse by learning by doing.
- 2) To promote entrepreneurship development in polyhouse cultivation.
- 3) To promote high value crops in polyhouse cultivation.
- 4) To popularize Bamboo based Rain shelter cum Poly House for small and marginal farmers.

Lecture No	Topic	Theory/ Practical	Course Hours
1	Inauguration and Brain Storming	Theory	1 Hour
2	Introduction and components of polyhouse cultivation	Theory	1 Hour
3	Polyhouse technology, its basics, planning and types	Theory	1 Hour
4	Considerable Point for Construction of Poly House	Theory	1 Hour
5	Polyhouse cultivation technology	Theory and Practical	1 Hour
6	Environment control mechanisms in Greenhouse	Theory	1 Hour
7	Media, bed preparation and soil sterilization	Theory	1 Hour
8	Different Cladding Materials	Theory	1 Hour
9	Practical on nursery bed preparation and seedling raising	Theory	2 Hour
10	Mulching in protected cultivation	Theory	1 Hour
11	Irrigation and drainage in polyhouse	Theory	1 Hour

12	Nutrient Management in poly house	Theory	1 Hour
13	Integrated disease and insect pest management under polyhouse	Theory	1 Hour
14	Practical on bed preparation and planting	Practical	2 Hour
15	Practical on identification of various disease and pest	Theory and Practical	1 Hour
16	Total cost for preparation of low cost Poly house	Theory	1 Hour
17	Bamboo based Rain Shelter cum Poly House	Theory	1 Hour
18	Low cost protected cultivation technologies	Theory	1 Hour
19	Preparation of crop cycle for a polyhouse	Theory and Practical	1 Hour
20	Crop selection and year round production in polyhouse	Theory	1 Hour
21	Production technology of important horticultural crops under polyhouse	Theory	1 Hour
22	Cultivation of exotic fruits and vegetables under polyhouse	Theory	1 Hour
23	Cultivation of Flowers under polyhouse	Theory	1 Hour
24	Preparation of project for construction of a low cost polyhouse	Theory and Practical	1 Hour
25	Practical in irrigation and intercultural operations of the crops	Practical	2 Hour
26	Sanitary measures while working in a polyhouse	Theory	1 Hour
27	Identification of various tools and implements to be used Polyhouse	Theory and Practical	1 Hour