

AMAG23 DESIGN AND MAINTENANCE OF GREENHOUSE

UNIT-1 HISTORY AND TYPES OF GREENHOUSES

- 1.1 Importance, function and features of green house;
- 1.2 Scope and development of greenhouse technology.

UNIT-2 LOCATION, PLANNING AND VARIOUS COMPONENT OF GREENHOUSE

- 2.1 Design criteria and calculation;
- 2.2 Constructional material and methods of construction;
- 2.3 Covering materials and its characteristics.

UNIT-3 SOLAR HEAT TRANSFER

- 3.1 Solar fraction for green house, steady state analysis of green house,
- 3.2 Greenhouse heating, cooling, shedding and ventilation systems.

UNIT-4 CARBON DIOXIDE GENERATION AND MONITORING AND LIGHTING SYSTEMS

- 4.1 Instrumentation & computerized environmental Control Systems.
- 4.2 Watering, fertilization, root substrata and its pasteurization, containers and benches, plant nutrition.

UNIT-5 ALTERNATIVE CROPPING SYSTEMS

- 5.1 Plant tissue culture, chemical growth regulation; disease control;
- 5.2 Integrated pest management.
- 5.3 Postproduction quality and handling Cost analysis of greenhouse production;
- 5.4 Applications of green house & its repair & maintenance.

Reference Book:

1. Manohar, K.R. and Iga Thinathane. C. Green House Technology and Management. B.S. Publications, Hyderabad.