School of Science
B.Sc. (Chemistry) Programme

Subject Code & Name: - BS01SECHE2: Green House Technology

Teaching and Evaluation Scheme:

Teaching Scheme				Examination Scheme			
Credits				Component Weightage			
				CCE		SEE	
L	T	P	Total	TH	PWE	TH	PWE
2	-	-	2	50%	00	50%	00

Programme Name	B.Sc. (Chemistry)
Semester	I
Course Code	BS01SECHE2
Course Title	Green House Technology
Course Content Type (Th./Pr.)	Theory
Course Credit	2
Sessions+ Lab. Per Week	2
Total Teaching/Lab. Hours	30 Hours
* 2 Laboratory = 1 Session	

Learning Objectives

1. To enable students for pursuing respectable career through self-employment.
2. To develop abilities in farming business.
3. To develop the skilled to manage protective cultivation technology and construction of polyhouse.
4. To trained future industry professionals.
5. To impart comprehensive knowledge with extra emphasis on practice.

Learning Outcomes

On the Completion of this course, students will able to:

1. Understand the concept and importance of greenhouse.
2. Learn operation and maintenance of greenhouse technology.
3. Gain the knowledge about different types of greenhouses.
4. Impart skill-based knowledge, which will helpful for start-up.

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Detailed Contents

UNIT	TOPIC/SUB-TOPIC	TEACHING HOURS
I	• Introduction to greenhouse: Definition, concept, importance and scope. • Greenhouse technology: operation, maintenance and management: light, temperature, humidity, pest and disease control, Advantages applications in agriculture. • Types of Green House based on shape, utility, construction and covering material	15
II	Structure and Construction of a Green House: • Location, • Frame work for various types of green house, • Covering material, • Construction of typical glass house/poly house/ net house, • Construction of pipe framed greenhouse, • Construction of floors and Layout, • Design and development of low cost greenhouse structures. • Automated greenhouses, microcontrollers, waste water recycling. • Green House World Scenario • Status in India	15

Reference Books

1. Bose, T.K. and Som, T. K. 1986. Vegetable Crops in India. Naya Prakash, Kolkata.
2. Bose, T.K. and Yadav, L.P. 1992. Commercial Flowers. Naya Prakash, Kolkata.
3. Randhawa, G.S. and Mukhopadhyaya, A. 1994. Floriculture in India. Allied Publishers Pvt.Ltd. New Delhi.
4. Shanmugavelu, K.G. 1985. Production Technology of Vegetable Crops. Oxford and IBM Publishing Co. Pvt. Ltd., New Delhi.
5. Prasad S and Kumar U 2003. Commercial Floriculture. Agrobios.
6. Prasad S and Kumar U 2003. Greenhouse management of horticultural crops. 2nd Edition. Agrobios.
7. Principles of drip irrigation system, Dr. M.S. Mane, B.L.Ayare, Dr.S.S.Magar., Jain Bros., New Delhi
8. Principles of sprinkler irrigation, Dr. M.S. Mane, Dr.B.L.Ayare. Jain Bros., New Delhi

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L:: Lecture, **T::** Tutorial , **P::**Practical

CCE:: Continuous and Comprehensive Evaluation

(CCE Theory includes Mid Semester Examination, Assignment, MCQ quizzes, Seminar, Reflective notes, class participation, case analysis and presentation, slip tests (announced/ surprised), attendance etc. or any combination of these)

PWE:: Practical Work Examination

(PWE includes Laboratory practical work, project work, viva simulation exercise work etc.)

SEE:: Semester End Evaluation