



# बिरसा मुंडा ट्रायबल युनिवर्सिटी Birsa Munda Tribal University

राजपिपला, जि. नर्मदा Rajpipla, Dist. Narmada

Established by Tribal Development Department, Govt. of Gujarat

## School of Science

### B.Sc. (Zoology) Programme

Subject Code & Name: - BS01SEZOO2 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. (Zoology)
Semester	I
Course Code	BS01SEZOO2
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 greenhouse.
4. Impart skill based knowledge, which will helpful for start-up.





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#### B.Sc. (Zoology) Programme

Detailed Contents		
UNIT	TOPIC/SUB-TOPIC	TEACHING HOURS
I	<ul style="list-style-type: none"><li>• Introduction to Green House: Definition, concept, importance and scope.</li><li>• Green House Technology: Operation, Maintenance and Management: light, temperature, humidity, pest and disease control, Advantages and applications in agriculture.</li><li>• Types of Green House based on shape, utility, construction and covering material</li></ul>	15
II	<p>Structure and Construction of a Green House:</p> <ul style="list-style-type: none"><li>• Location.</li><li>• Frame work for various types of Green House.</li><li>• Covering material.</li><li>• Construction of typical Green House/poly house/ net house.</li><li>• Construction of pipe framed Green House.</li><li>• Construction of floors and Layout.</li><li>• Design and development of low cost Green Houses structures.</li><li>• Automated Green Houses, microcontrollers, waste water recycling.</li><li>• Green House World Scenario.</li><li>• Status in India.</li></ul>	15
Reference Books		
<ol style="list-style-type: none"><li>1. Bose, T.K. and Som, T. K. 1986. Vegetable Crops in India. Naya Prakash, Kolkata.</li><li>2. Bose, T.K. and Yadav, L.P. 1992. Commercial Flowers. Naya Prakash, Kolkata.</li><li>3. Randhawa, G.S. and Mukhopadhyaya, A. 1994. Floriculture in India. Allied Publishers Pvt.Ltd. New Delhi.</li><li>4. Shanmugavelu, K.G. 1985. Production Technology of Vegetable Crops. Oxford and IBM Publishing Co. Pvt. Ltd., New Delhi.</li><li>5. Prasad S and Kumar U 2003. Commercial Floriculture. Agrobios.</li><li>6. Prasad S and Kumar U 2003. Greenhouse management of horticultural crops. 2nd Edition. Agrobios.</li><li>7. Principles of drip irrigation system, Dr. M.S. Mane, B.L.Ayare, Dr.S.S.Magar., Jain Bros., New Delhi</li><li>8. Principles of sprinkler irrigation, Dr. M.S. Mane, Dr.B.L.Ayare. Jain Bros., New Delhi</li></ol>		





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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

