



TEACHING PLAN: PRODUCTION TECHNOLOGY FOR ORNAMENTAL, MAP AND LANDSCAPING

Course Teacher: Mr. Mukesh Choudhary

SCHOOL: SOAS		ACADEMIC SESSION: 2023 – 2024		FOR STUDENT’S BATCH: 4 th SEM	
1	Course Code	AHR-202			
2	Course Title	PRODUCTION TECHNOLOGY FOR ORNAMENTAL, MAP AND LANDSCAPING			
3	Credits	2 (1+1)			
4	Learning Hours		Contact Hours	48	
			Assessment	24	
			Guided Study	28	
			Total hours	100	
5	Course Objective	1. This course provides objectives of the proposal are in line with the objectives of horticultural development which are to achieve self-reliance in floricultural commodities, to improve productivity of flower, medicinal and aromatic crops. 2. Describes about the basic principles landscaping and historical facts of gardening in India. 3. It also presents a general production technology of ornamental crops. 4. This course also provides and understanding of general production technology of medicinal and aromatic crops.			
6	Course Outcomes	The student will learn and understand the following outcomes:- 1. The production technology identifies causes of low production problems, quantify potential impacts, analyze options, identify viable solutions, and evaluate actions and consequences of treatments and interventions. 2. Identify different types of flower, ornamental and medicinal crops. 3. To planned and layout of garden and landscaping and its principles. 4. To perform intercultural operations in flowers and medicinal and aromatic crops.			
7	Outline Syllabus:				
7.01	Paper Code	Unit		Reference Number	Teaching Methods
7.02	AHR-202	UNIT-I IMPORTANCE AND PRINCIPLES	a) Importance and scope of ornamental crops, medicinal and aromatic plants b) Landscaping and it’s Principles; Landscape uses of trees, shrubs and climbers c) Production technology of cut rose, gerbera, carnation	ICAR-ecourse. Pp :5-19	Lecture , ppt

		UNIT-II PRODUCTI ON TECHNOLO GY OF ORNAMEN TAL PLANTS	a) Production technology of lilium; Production technology of orchids; Production technology of gladiolus under protected conditions b) Production technology of chrysanthemum under protected conditions; Production technology of tuberose under protected conditions c) Package of practices for marigold under open conditions; Package of practices for jasmine under open conditions	ICAR- ecourse. Pp : 20- 47.	Lec ture and PPT
		UNIT-III PRODUCTIO N TECHNOLO GY OF MEDICINAL PLANTS	a) Production technology of medicinal plants ashwagandha; Production technology of medicinal plants asparagus; Production technology of medicinal plants aloe b) Production technology of medicinal plants costus; Production technology of medicinal plants Cinnamomum c) Production technology of medicinal plants periwinkle; Production technology of medicinal plants Isabgol	ICAR- ecourse. Pp : 198- 201,194- 197, 228- 230.	Lec ture and PPT
7.03		UNIT-IV: PRODUCTIO N TECHNOLO GY OF AROMATIC PLANTS	a) Production technology of aromatic plants geranium; Production technology of aromatic plants vetiver; Production technology of aromatic plants ocimum b) Production technology of aromatic plants mint; Production technology of aromatic plants lemongrass c) Production technology of aromatic plants citronella; Production technology of aromatic plants primerose	ICAR- ecourse. Pp : 55- 79.	Lec ture and PPT
8	Course Evaluation				
8.1	COURSE ASSESEMENT: 50%				
8.1.1	Attendance	5 %			
8.1.2	Homework	5 %			
8.1.3	ClassTest	5 %			
8.1.5	Presentation	5%			
8.1.6	Any other	20%			
8.2	MTE	10%			
8.3	End-term examination: 50%				
9	Text Books & References				
9.1	Text book	1. ICAR-ecourse.			
9.2	Reference	1. Arora J. S., (1998). Introductory Ornamental Horticulture. Kalyani Publishers Pvt. Ltd., W. Bengal. 2. Bhattacharjee S. K., (2004). Landscape gardening and design with plants. Pointer Publishers Pvt. Ltd., Jaipur. 3. Randhawa G. S., and Mukhopadhyay A., (2007). Floriculture in India. Allied Publishers Pvt. Ltd., New Delhi			

		4. Randhawa, G.S. 1973. Ornamental Horticulture in India. Today and Tomorrows printers and publishers, New Delhi.
9.3	Video References	1. https://youtu.be/CC-rBOPbS00 2. https://youtu.be/pZWn4NVFS00 3. https://youtu.be/GHjvz9nFkNU 4. https://youtu.be/Lu040-dVXKk 5. https://youtu.be/k-tmmOdL-7k 6. https://youtu.be/v1b_vBgIaU 7. https://youtu.be/YMaA3JBCyco 8. https://youtu.be/D1Xa2ejJB4o 9. https://www.youtube.com/channel/UCBWSYpP57pe_z9cXz25Qj7g

Mapping of Outcomes v. Topics

Outcome no. → Syllabus topic↓	1	2	3	4
Paper Code. Unit I (a)	✓			
Paper Code. Unit I (b)	✓		✓	
Paper Code. Unit I (c)	✓	✓		✓
Paper Code. Unit II (a)	✓	✓		✓
Paper Code. Unit II (b)	✓	✓		✓
Paper Code. Unit II (c)	✓	✓		✓
Paper Code. Unit III (a)	✓	✓		✓
Paper Code. Unit III (b)	✓	✓		✓
Paper Code. Unit III (c)	✓	✓		✓
Paper Code. Unit IV (a)	✓	✓		✓
Paper Code. Unit IV (b)	✓	✓		✓
Paper Code. Unit IV (c)	✓	✓		✓

QUESTION BANK

Fill in the blank

1. Generally, roses are graded according toof stem.
2. Treeis closely associated with the life of Lord Krishna.
3. The birth of Lord Buddha took place under the tree.....
4. The grove, Ashokavana was composed of tree.....
5. Nandanavana garden is dedicated to Lord.....
6. As per Atharva Veda, the goods of the third heaven used to sit under.....tree.
7. Marigold is propagated through.....
8. Rose is commercially propagated through.....
9. 'Grand Gala' is a variety ofand is suitable for greenhouse cultivation.
10. Botanical name of tuberose is.....

11. Botanical name of African marigold is.....
12. Botanical name of French marigold is.....
13. Botanical name of chrysanthemum is.....
14. Botanical name of carnation is.....
15. Botanical name of asparagus is.....

DESCREPTIVE QUESTION

1. Explain in brief the principles of landscape gardening?
2. Explain in brief the various elements of landscape gardening?
3. What do you understand by annuals? Explain in brief the uses and their classification?
4. Write down a short note on ornamental trees?
5. Define shrubs? Explain in brief the uses and their classification?
6. Define climbers? Explain in brief the uses and their classification?
7. Explain in brief the various nutrient deficiency symptoms in flower crops.
8. What are different recommended doses of fertilizers for rose, gladiolus, chrysanthemum, and tuberose?
9. Explain in detail the various diseases of rose?
10. Explain in detail the various diseases of gladiolus?
11. Explain in detail the various diseases of chrysanthemum?
12. What is the value added commercial fragrant products of rose?
13. Write down the protected cultivation of gladiolus?
14. Write down the protected cultivation of cut rose?
15. Write down the protected cultivation of carnation?
16. Write down the protected cultivation of gerbera?
17. Write down the protected cultivation of china aster?
18. Write down the cultivation of marigold in open condition?
19. Write in details about Production technology of orchids?
20. Write in details about Production technology of tuberose?

PROJECTS (To be given to group of students)

1. Attend webinar and seminar.
2. Field Visit
3. MOOC Courses
4. Visit ornamental nursery