

# DEPARTMENT OF BOTANY & HORTICULTURE

## HORTICULTURE

### ANNUAL CURRICULAR PLAN – 2021-2022

YEAR: 2021-2022

PAPER: I

SEM: I

NAME OF THE LECTURER: A REKHA SRIVALLI

Month & Week	Hours available	Syllabus Topic	Additional Inputs / Value Additions	Curricular Activity				Co-Curricular Activity			
				Activity	Hours Allotted	Whether Conducted	If not Alternate Date	Activity	Hours Allotted	Whether Conducted	If not Alternate Date
December	8	<b>Unit I : Horticulture Introduction</b> 1. Horticulture – Def., Importance 2. Economy, Employment 3. Scope 4. Divisions	Pictures Diagrams Charts	Teaching	6	Conducted		Assignments		Conducted	
January	12	<b>Unit II : Classification, Nutrition</b> 1. Soil & climate req. 2. Nutritive value 3. Export & import <b>Unit III : Environmental factors</b> 1. Soil – phy. & chem. Properties 2. Light, Temp., RH, Rainfall	Diagrams Pictures	Teaching	10	Conducted		Seminars		Conducted	
February	16	3. Microclimate, Pollution	Diagrams Pictures	Teaching	16	Conducted		Quiz		Conducted	



January	16	<b>Unit I : Solanaceous vegetables</b> 1. Cultivation of Brinjal 2. Tomata 3. Capsicum <b>Unit II : Leafy vegetables</b> 1. Amaranth & Spinach	Pictures Diagrams	Teaching	12	Conducted		Assignment		Conducted	
February	16	2. Coriander & Mentha <b>Unit III : Root &amp; Tuber crops</b> 1. Colacasia & Dioscorea 2. Sweet potato & Tapioca 3. Carrot & Beet root	Pictures Diagrams	Teaching	14	Conducted		Seminars Assignments		Conducted	
March	12	<b>Unit IV : Cole crops</b> 1. Cabbage 2. Cauliflower <b>Unit V : Leguminous vegetables</b> 1. Cluster & Double bean 2. Cow pea & Dolichos	Pictures Diagrams	Teaching	10	Conducted		Quiz		Conducted	

## ANNUAL CURRICULAR PLAN

YEAR: **2021-2022**

PAPER: **SDC(PL.N)**

SEM: **I**

NAME OF THE LECTURER: **A REKHA SRIVALLI**

Month &	Hours	Syllabus Topic	Additional	Curricular Activity	
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Week	available		Inputs / Value Additions	Co-Curricular Activity							
				Activity	Hours Allotted	Whether Conducted	If not Alternate Date	Activity	Hours Allotted	Whether Conducted	If not Alternate Date
December	4	<b>Unit I : Introduction to plant nursery</b> 1. Plant Nursery – Def.,Importance 2. Nursery types	Pictures Charts	Teaching	4	Conducted		Notes preparation		Conducted	
January	8	3. Layout & components 4. Propagation structures 5. BIS <b>Unit II : Necessities for Nursery</b> 1. Nursery beds 2. Media, tools, containers 3. Propagation methods	Diagrams Pictures	Teaching	6	Conducted		Assignments		Conducted	
February	8	4. Propagation techniques 5. Sowing methods & Planting material <b>Unit III : Nursery management</b> 1. Seasonal & routine operations 2. Nursery management	Diagrams Pictures	Teaching	8	Conducted		Quiz		Conducted	
March	6	3. Possible errors 4. Nursery development &	Diagrams Pictures	Teaching	6	Conducted		Slip tests		Conducted	

		maintenance 5. Outline nursery info. & sales systems									
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## ANNUAL CURRICULAR PLAN

YEAR: **2021-2022**

PAPER: **II**

SEM: **II**

NAME OF THE LECTURER: **A REKHA SRIVALLI**

Month & Week	Hours available	Syllabus Topic	Additional Inputs / Value Additions	Curricular Activity				Co-Curricular Activity			
				Activity	Hours Allotted	Whether Conducted	If not Alternate Date	Activity	Hours Allotted	Whether Conducted	If not Alternate Date
May	8	<b>Unit I : Basics of propagation</b> 1. Plant propagation – principles 2. Commercial nursery 3. Ecological & economic factors	Pictures Charts	Teaching	7	Conducted		Seminars		Conducted	
June	10	<b>Unit II : Seed propagation</b> 1. Importance 2. Seed germination 3. Affecting Factor 4. Pre – germination treatments	Diagrams Pictures	Teaching	9	Conducted		Assignments		Conducted	

July	12	<b>Unit III : Vegetative propagation</b> 1. Importance 2. Structures, containers, media 3. Orchid propagation <b>Unit IV : Vegetative propagation techniques</b> 1. Cuttings 2. Layerings	Diagrams Pictures	Teaching	12	Conducted		Quiz		Conducted	
August	12	3. Graftings 4. Buddings <b>Unit V : Nursery management</b> 1. Nursery – def., site, layout 2. Nurse beds 3. Potting, re-potting 4. Accreditation, certification	Diagrams Pictures	Teaching	11	Conducted		Slip tests		Conducted	

## ANNUAL CURRICULAR PLAN

YEAR: **2021-2022**

PAPER: **IV**

SEM: **IV**

NAME OF THE LECTURER: **A REKHA SRIVALLI**

Month & Week	Hours available	Syllabus Topic	Additional Inputs / Value Additions	Curricular Activity	Co-Curricular Activity
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				Activity	Hours Allotted	Whether Conducted	If not Alternate Date	Activity	Hours Allotted	Whether Conducted	If not Alternate Date
May	6	<b>Unit I : Fruit crops - Introduction</b> 1. Importance 2. Nutritive value 3. Area & production 4. Export & import	Pictures Charts	Teaching	6	Conducted		Seminars		Conducted	
June	9	<b>Unit II : Fruit crops – Tropical</b> Cultivation of 1. Mango 2. Guava 3. Papaya	Diagrams Pictures	Teaching	8	Conducted		Assignments		Conducted	
July	9	<b>Unit III : Fruit crops – Sub Tropical &amp; Temperate</b> Cultivation of 1. Grapes 2. Pomegranate 3. Citrus 4. Apple <b>Unit IV : Fruit crops – Arid &amp; Minor</b> Cultivation of 1. Amla	Diagrams Pictures	Teaching	9	Conducted		Quiz		Conducted	
August	10	2. Dates 3. Wood apple <b>Unit V : Management practices</b> 1. Sustainable production 2. IPM	Diagrams Pictures	Teaching	9	Conducted		Slip tests		Conducted	

		3. Harvest & labour 4. Post – harvest practices									
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## ANNUAL CURRICULAR PLAN

YEAR: 2021-2022

PAPER: V

SEM: IV

NAME OF THE LECTURER: A REKHA SRIVALLI

Month & Week	Hours available	Syllabus Topic	Additional Inputs / Value Additions	Curricular Activity				Co-Curricular Activity			
				Activity	Hours Allotted	Whether Conducted	If not Alternate Date	Activity	Hours Allotted	Whether Conducted	If not Alternate Date
May	7	<b>Unit I : Entamology &amp; Plant Pathology basics</b> 1. Pests – classification 2. Disease triangle & pyramid 3. Symptoms by – viruses & bacteria 4. Symptoms by – fungi	Pictures Charts	Teaching	7	Conducted		Seminars		Conducted	
June	7	<b>Unit II : Pests &amp; Diseases of Vegetable crops</b> 1. Bendi 2. Cucurbits 3. Potato 4. Sweet potato	Diagrams Pictures	Teaching	7	Conducted		Assignments		Conducted	



July	10	<b>Unit III : Pests &amp; Diseases of Fruit crops</b> <ol style="list-style-type: none"> <li>1. Coconut</li> <li>2. Banana</li> <li>3. Cashew</li> <li>4. Custard apple</li> </ol> <b>Unit IV : Pests &amp; Diseases of Flower crops</b> <ol style="list-style-type: none"> <li>1. Rose</li> <li>2. Marigold</li> <li>3. Gerbera</li> </ol>	Diagrams Pictures	Teaching	10	Conducted		Quiz		Conducted	
August	10	<ol style="list-style-type: none"> <li>4. Gladiolus</li> </ol> <b>Unit V : Management of pests &amp; diseases</b> <ol style="list-style-type: none"> <li>1. Principles</li> <li>2. IPNM</li> <li>3. Fungicides – classification</li> <li>4. Preparation of fungicides</li> </ol>	Diagrams Pictures	Teaching	9	Conducted		Group discussion		Conducted	