

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI

Course Schedule – November 2018 – April 2019

Department : Botany
Name/s of the Faculty : Dr. H. Shakila
Course Title : Fundamentals of Horticulture
Course Code : 15BT/GE/FH23
Shift : I

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
Nov. 14 - 20, 2018 (Day Order 1 to 6)	1.1. Introduction: Divisions of Horticulture 1.2 History of Gardening, Some famous Gardens of India	Lecture	Introduction to Horticulture by N. Kumar; Horticultral science by Janick Complete Gardening in India by Gopalswamy Iyengar	Assignment on 5 famous gardens of India
Nov. 22 - 29, 2018 (Day Order 1 to 6)	1.3 Types of Gardens: Indoor, Public and Kitchen garden	Lecture	Introduction to Horticulture by N. Kumar; Horticultral science by Janick	
Nov. 30 – Dec 06, 2018 (Day Order 1 to 6)	2.1 Pot cultures: Selection of pots, potting Repotting and potting mixtures 2.2 Vegetative propagation: Layering	Lecture through demonstration and PPT	-do- Horticulture Principles and Practices by George Acquaah	
Dec 07 - 14, 2018 (Day Order 1 to 6)	2.2 Vegetative propagation: Cutting	Lecture through PPT & Demonstration	Introduction to Horticulture by N. Kumar;	

	2.2 Vegetative propagation: Grafting		Horticultural science by Janick	
Dec. 15 - 21, 2018 (Day Order 1 to 6)	3.1 Gardening operation: Planting, Transplanting, Pinching, Disbudding, Defoliation, Staking, Pruning, Staking,	Lecture	Introduction to Horticulture by N. Kumar; Fundamentals of Horticulture by Edmund, Sen et.al.	
Jan. 03- 09, 2019 (Day Order 1 to 6)	3.1 Gardening operation: watering, Mulching and Topiary. 3.2 Ornamental garden and its parts	Lecture Cum PPT	-do-	
Jan. 10- 21, 2019 (Day Order 1 to 6)	4.1. Lawn and Lawn making	Lecture through PPT ; Exposing the College garden	Horticultural science by Janick Fundamentals of Horticulture by Edmund, Sen et.al. Introduction to Horticulture by N. Kumar	
Jan. 22, 2019 (Day Order 1)	REVISION			
Jan.23 - 29, 2019	C.A. Test			
Jan.30 – Feb 05, 2019 (Day Order 2 to 6)	4.2 Rockery	Lecture through PPT	-do-	
Feb.06 - 13, 2019	4.2.Rockery	Exposing the	Horticultural	

(Day Order 1 to 6)		college garden and also visit to Semmozhi Poonga	science by Janick Fundamentals of Horticulture by Edmund, Sen et.al. Introduction to Horticulture by N. Kumar	
Feb.14 - 21, 2019 (Day Order 1 to 6)	4.3. Terrarium	Lecture through PPT and demonstration	Introduction to Horticulture by N. Kumar	Individual Practical work- Evaluated for III component
Feb.22 – Mar. 01, 2019 (Day Order 1 to 6)	4.4. Bonsai	Lecture through PPT and demonstration	Introduction to Horticulture by N. Kumar	
Mar 04 -11, 2019 (Day Order 1 to 6)	5.1. Commercial floriculture: Economic flowers- Rose and Jasmine	Lecture	Introduction to Horticulture by N. Kumar	
Mar. 12 - 19, 2019 (Day Order 1 to 6)	5.2. Cut Flowers .Importance and methods to prolong vase life 5.3. Flower arrangement- Fresh and dry	Lecture & PPT	-do-	Practical- Developing an art of preparing flower vase –III component
Mar. 20 - 26, 2019 (Day Order 1 to 6)	5.4. Flower arrangement- Fresh and dry (Practicals)	Demonstration	-do-	Practical- Developing an art of preparing flower vase –III component
Mar. 27 - 28, 2019 (Day Order 1 to 2)	REVISION DAYS			

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI

Course Schedule – November 2018 – April 2019

Department : Botany
Name/s of the Faculty : Ms. Antony Rose Immaculate & Dr. H. Shakila
Course Title : General Botany - II
Course Code : 15BT/AC/ GB24
Shift : I

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
Nov. 14 - 20, 2018 (Day Order 1 to 6)	Unit 1.1: Salient features of Bryophyta Unit2.1: Photosynthesis- Light Reaction: Red Drop, Emerson Enhancement Effect, Pigment Systems I & II	Lecture through chalk and board method Lecture Method	Outlines of Botany by Rao, K. N and Narayanaswamy, R. V Plant Physiology by Devlin Modern plant Physiology by Sinha. R.K	
Nov. 22 - 29, 2018 (Day Order 1 to 6)	Unit 1.2: A detailed study of the life cycle of <i>Funaria</i> Unit 2.1: Phosphorylation, Fluorescence, Cyclic & Non Cyclic Photo phosphorylation.	Lecture through chalk and board method with practical exposure Lecture Method	Outlines of Botany by Rao, K. N and Narayanaswamy, R.V. Modern Plant Physiology by Sinha, R.K.	Assignment
Nov. 30 – Dec 06, 2018 (Day Order 1 to 6)	Unit 1.1: Salient features of	Lecture through chalk and board	Outlines of Botany by Rao,	

	Pteridophyta Unit 2.1: Dark Reaction: C ₃ and C ₄	method Lecture Method	K. N and Narayanaswamy, R.V. Text Book of Plant Physiology by Verma, V.	
Dec 07 - 14, 2018 (Day Order 1 to 6)	Unit 1.3: A detailed study of the life cycle of <i>Adiantum</i> Unit 2.2: Respiration – Aerobic: Glycolysis, Krebs Cycle	-do-	Text Book of Botany by Vidyarthi, R.D Text Book of Plant Physiology by Verma V Plant Physiology and Biochemistry by Verma, S.K	
Dec. 15 - 21, 2018 (Day Order 1 to 6)	Unit 1.1: Salient features of Gymnosperms Unit 2.2: Organization of the Respiratory Chain, ETP	Lecture through chalk and board method Lecture Method	Text Book of Botany by Vidyarthi, R.D Text Book of Plant Physiology by Verma, V.	
Jan. 03- 09, 2019 (Day Order 1 to 6)	Unit 1.4: A detailed study of the life cycle of <i>Cycas</i>	Lecture through chalk and board method with practical exposure	Text Book of Botany by Vidyarthi, R.D Outlines of Botany by Rao, K. N and Narayanaswamy, R.V.	
Jan. 10- 21, 2019 (Day Order 1 to 6)	Unit 2.2:Oxydative Phosphorylation,	Lecture Method	Modern Plant Physiology by	

	Anaerobic Fermentation		Sinha, R.K. Text Book of Plant Physiology by Verma, V.	
Jan. 22, 2019 (Day Order 1)	Unit 1.4: A detailed study of the life cycle of <i>Cycas</i> (continuation) Unit. 3.1: Plant Growth Regulators- Auxins, Gibberellins - Practical Applications	Lecture through chalk and board method with practical exposure Lecture Method	Outlines of Botany by Rao, K. N and Narayanaswamy, R.V., Modern Plant Physiology by Sinha, R.K. Text Book of Plant Physiology by Verma, V.	Quiz
Jan.23 - 29, 2019	C.A. Test			
Jan.30 – Feb 05, 2019 (Day Order 2 to 6)	Unit 3.1: Plant Growth Regulators- Cytokinins, ABA and Ethylene – Practical Applications	Lecture through chalk and board method	Modern Plant Physiology by Sinha, R.K. Text Book of Plant Physiology by Verma, V.	
Feb.06 - 13, 2019 (Day Order 1 to 6)	Unit 4.1: Bonsai Technique Unit 3.2: Photoperiodism – Long and Short	Lecture through ppt. Lecture Method	Horticultural Science by Janick, J. Introduction to Horticulture by Kumar. N. Modern Plant Physiology by Sinha, R.K.	

	Day Plants – Phytochrome, Florigen and Vernalisation			
Feb.14 - 21, 2019 (Day Order 1 to 6)	Unit 4.2: Cut flowers- Importance Unit.5.1: Principles of Plant Tissue Culture	Lecture cum ppt. Lecture cum demonstration	Introduction to Horticulture by Kumar, N. A Textbook of Biotechnology by Dubey, R.C.	
Feb.22 – Mar. 01, 2019 (Day Order 1 to 6)	Unit 4.2: Cut flowers- methods to prolong Vase life Dry Unit.5.1: Principles of Plant Tissue Culture (Continuation)	Lecture cum ppt. Lecture cum demonstration	Introduction to Horticulture by Kumar, N. A Textbook of Biotechnology by Kumar, H.D.	
Mar 04 -11, 2019 (Day Order 1 to 6)	Unit 4.4: Flower arrangement- Fresh Unit 5.2: Oyster Mushroom – Cultivation and Marketing	Lecture cum ppt. Lecture through practical exposure	Introduction to Horticulture by Kumar, N. A Textbook of Biotechnology by Dubey, R.C.	
Mar. 12 - 19, 2019 (Day Order 1 to 6)	Unit 4.4: Flower arrangement- Dry Unit 5.2: Button Mushroom: Cultivation	Lecture cum ppt. Lecture cum demonstration	Introduction to Horticulture by Kumar, N. A Textbook of Biotechnology by Kumar, H.D.	
Mar. 20 - 26, 2019	Unit 5.2: Button		A Textbook of	

(Day Order 1 to 6)	Mushroom: Marketing	Lecture	Biotechnology by Kumar, H.D.	
Mar. 27 - 28, 2019 (Day Order 1 to 2)	REVISION DAYS			

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI

Course Schedule – November 2018 – April 2019

Department : Botany
Name of the Faculty : Dr. S. Diana Vinodhini
Course Title : Environmental Studies
Course Code : 15BT/GC/ES22
Shift : I

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
Nov. 14 - 20, 2018 (Day Order 1 to 6)	Unit1.1. Components of Environment	Lecture through chalk and board method	Fundamentals of Ecology by Odum, E.P.	
Nov. 22 - 29, 2018 (Day Order 1 to 6)	Unit 1.1. Classification and characteristics of resources	Lecture through chalk and board method	-do-	
Nov. 30 – Dec 06, 2018 (Day Order 1 to 6)	Unit 1.2. Need for public awareness in conservation of Natural resources	Lecture by through Power point presentation	-do-	
Dec 07 - 14, 2018 (Day Order 1 to 6)	Unit 1.3. Energy flow in aquatic and terrestrial ecosystems	Lecture through chalk and board method	-do-	
Dec. 15 - 21, 2018 (Day Order 1 to 6)	Unit 1.3. Food chain and Food web	Lecture through chalk and board method	Textbook of Environmental Studies by Bharucha E.	
Jan. 03- 09, 2019 (Day Order 1 to 6)	Unit 2.1. Types of Pollution – Air, Water, Solid Wastes and Noise	Lecture through Power point presentation	Textbook of Environmental Studies by Bharucha E.	Quiz
Jan. 10- 21, 2019 (Day Order 1 to 6)	Unit 2.2. Problems-Green	Lecture through Power point	Fundamentals of Ecology by	

	House Effect- Depletion of the ozone layer- climate change Unit 2.3. Biodiversity, loss of biodiversity, Threats and conservation of biodiversity	presentation Field Study	Odum, E.P.	
Jan. 22, 2019 (Day Order 1)	Unit 2.4. Population, urbanization and pollution	Lecture through Power point presentation	Ecofeminism by Mies M & Shiva V	
Jan.23 - 29, 2019	C.A. Test			
Jan.30 – Feb 05, 2019 (Day Order 2 to 6)	Unit 2.5. Agriculture and Industry, Deforestation, Misuse and abuse of resources	Lecture through chalk and board method	Textbook of Environmental Studies by Bharucha E.	
Feb.06 - 13, 2019 (Day Order 1 to 6)	Unit 2.6. Effects and consequences of environmental problems	Lecture through Power point presentation	-do-	
Feb.14 - 21, 2019 (Day Order 1 to 6)	Unit 3.1. Bhopal gas Tragedy, Chernobyl accident, Fukushima Nuclear Crisis, Gulf War, Love	Lecture through Power point presentation	-do-	Assignment

	Canal Episode, Tsunami and Volcanic Eruptions			
Feb.22 – Mar. 01, 2019 (Day Order 1 to 6)	Unit 3.2. Carbon footprint, Carbon credit, Ecological footprint and ecological shadow	Lecture through Power point presentation	Textbook of Environmental Studies by Bharucha E.	
Mar 04 -11, 2019 (Day Order 1 to 6)	Unit 3.3. Chipko movement, Narmada Bachao Andolan, Sethu Samudram Project	Lecture through Power point presentation	-do-	
Mar. 12 - 19, 2019 (Day Order 1 to 6)	Unit 3.4. Environmental acts – policy measures with respect to India	Lecture through chalk and board method	Environmental Protection and Law by Jadhav, H and Bhosale V.M.	
Mar. 20 - 26, 2019 (Day Order 1 to 6)	Unit 3.5. International Environmental Agreements	Lecture through chalk and board method	„ -do-	
Mar. 27 - 28, 2019 (Day Order 1 to 2)	REVISION DAYS			

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI

Course Schedule – November 2018 – April 2019

Department : Botany
Names of the Faculty : Dr. Geradette Davey and Dr. S. Diana Vinodhini
Course Title : Bryophytes, Pteridophytes, Gymnosperms
Course Code : 15BT/MC/BP24
Shift : I

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
Nov. 14 - 20, 2018 (Day Order 1 to 6)	<p>Unit 1 Classification and Characteristics 1.1. Classification of Bryophyta (Proskauer, 1957).</p> <p>Unit 2 Bryophytes 2.1. A detailed study of the thallus structure, anatomy and reproduction of the following (no development): Hepaticopsida – <i>Porella</i>.</p>	Lecture through chalk and board method	<p>A Textbook of Botany Vol. II- Bryophytes,</p> <p>Bryophytes by Srivastava, H.N.</p> <p>The structure and Life of Bryophytes by Watson, E.V.</p>	
Nov. 22 - 29, 2018 (Day Order 1 to 6)	<p>1.1 Characteristic Features of following classes: Hepaticopsida, Anthocerotopsida, Bryopsida</p> <p>2.1 Anthocerotopsida – <i>Anthoceros</i></p>	Lecture through chalk and board method	<p>A Textbook of Botany Vol. II- Bryophytes, Pteridophytes and Gymnosperms by Pandey, S.N., P.S Trivedi and A Misra.</p> <p>Bryophytes by Srivastava, H.N.</p>	Quiz
Nov. 30 – Dec 06, 2018 (Day Order 1 to 6)	2. Classification of Pteridophyta (Reimers, 1951).	Lecture and OHP	<p>Pteridophyta by P.C. Vashista</p> <p>A Textbook of Botany Vol. II-</p>	

	<p>2.1 Bryopsida - <i>Polytrichum</i></p>		<p>Bryophytes, Pteridophytes and Gymnosperms by Pandey, S.N., P.S Trivedi and A Misra.</p>	
<p>Dec 07 - 14, 2018 (Day Order 1 to 6)</p>	<p>1.2 Characteristic features of the following classes: Lycopsidea, Sphenopsida and Pteropsida</p> <p>Unit 3 Pteridophytes</p> <p>3.1. A detailed study of structure of plant body, anatomy and reproduction of Lycopsidea - <i>Lycopodium</i></p>	<p>Lecture through chalk and board method</p>	<p>Botany for degree students Pteridophyta by P.C. Vashista</p> <p>A textbook of Botany by S. N. Pandey, P .S. Trivedi and A. Misra</p>	
<p>Dec. 15 - 21, 2018 (Day Order 1 to 6)</p>	<p>1.3. Classification of Gymnospermae (Bierhorst, 1971).</p> <p>3.1 Sphenopsida - <i>Equisetum</i></p>	<p>Lecture through chalk and board method</p>	<p>A textbook of Botany by S. N. Pandey, P .S. Trivedi and A. Misra</p> <p>Botany for degree students Pteridophyta by P.C. Vashista</p>	
<p>Jan. 03- 09, 2019 (Day Order 1 to 6)</p>	<p>1.3 Characteristic features of the following classes: Cycadopsida - <i>Cycas</i></p> <p>3.1 Filices - <i>Marsilea</i></p>	<p>Lecture through chalk and board method</p>	<p>A Textbook of Botany Vol. II- Bryophytes, Pteridophytes and Gymnosperms by Pandey, S.N., P.S Trivedi and A Misra.</p> <p>Botany for degree students Pteridophyta by P.C. Vashista</p>	

Jan. 10- 21, 2019 (Day Order 1 to 6)	Gnetopsida – <i>Gnetum</i>	Lecture through chalk and board method	A Textbook of Botany Vol. II- Bryophytes, Pteridophytes and Gymnosperms by Pandey, S.N., P.S Trivedi and A Misra.	
Jan. 22, 2019 (Day Order 1)	Revision			
Jan.23 - 29, 2019	C.A. Test			
Jan.30 – Feb 05, 2019 (Day Order 2 to 6)	Unit 4 Gymnosperms 4.1. A detailed study of structure of plant body, anatomy and reproduction of Cycadopsida – <i>Cycas</i> 5.3. Fossil forms	Lecture and OHP	Gymnosperms by Chamberlain Gymnosperms by Srivastava Essentials of Palaeobotany by Sukla & Mishra, S.P	
Feb.06 - 13, 2019 (Day Order 1 to 6)	4.1. A detailed study of structure of plant body, anatomy and reproduction of Gnetopsida – <i>Gnetum</i> 5.3 Pteridophyta : <i>Lepidodendron</i> ,	Lecture through chalk and board method	Botany for degree students Gymnosperms by Vashista An Introduction of Palaeobotany by Arnold C.A	Assignment
Feb.14 - 21, 2019 (Day Order 1 to 6)	Unit 5 Fossils 5.1. Table of the Geological Time Scale 5.3 Pteridophyta : <i>Stigmaria</i>	Lecture & PPT	An Introduction of Palaeobotany by Arnold C.A Essentials of Palaeobotany by Sukla & Mishra, S.P	
Feb.22 – Mar. 01, 2019	5.1. Table of the Geological Time Scale	Lecture through chalk and board	Essentials of Palaeobotany by Sukla & Mishra,	

(Day Order 1 to 6)	5.3. Fossil forms - <i>Lepidostrobus</i>	method	S.P An Introduction of Palaeobotany by Arnold C.A	
Mar 04 -11, 2019 (Day Order 1 to 6)	5.2. Process of Fossilization 5.3. Fossil forms - <i>Lepidocarpon</i>	Lecture & PPT	Essentials of Palaeobotany by Sukla & Mishra, S.P An Introduction of Palaeobotany by Arnold C.A	
Mar. 12 - 19, 2019 (Day Order 1 to 6)	5.2. Process of Fossilization 5.3 Gymnosperms: <i>Williamsonia</i>	Lecture through chalk and board method	Essentials of Palaeobotany by Sukla & Mishra, S.P An Introduction of Palaeobotany by Arnold C.A	
Mar. 20 - 26, 2019 (Day Order 1 to 6)	Revision			
Mar. 27 - 28, 2019 (Day Order 1 to 2)	REVISION DAYS			

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI

Course Schedule – November 2018 – April 2019

Department : Botany
Name/s of the Faculty : Dr. H. Shakila & Dr. S. Diana Vinodhini
Course Title : Bioinstrumentation
Course Code : 15BT/AE/BI45
Shift : I

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
Nov. 14 - 20, 2018 (Day Order 1 to 6)	Unit 1: Centrifugation – Bench, Ultracentrifuge & Microfuge Unit 4: Chromatography – Paper and Thin layer	Lecture OHP	Plant Microtechnique & Microscopy by Steven Biological Instrumentation and Methodology by P.K Bajpai	
Nov. 22 - 29, 2018 (Day Order 1 to 6)	Unit 1: Refrigerated, continuous flow Unit 4: Chromatography – Column,	Lecture OHP	Plant Microtechnique & Microscopy by Steven	
Nov. 30 – Dec 06, 2018 (Day Order 1 to 6)	Unit 1: Density gradient and Differential Centrifugation Isolation of Chloroplast Unit 4: Ion Exchange Chromatography	Lecture OHP Practical	Plant Microtechnique & Microscopy by Steven Biological Instrumentation and Methodology by P.K Bajpai	

Dec 07 - 14, 2018 (Day Order 1 to 6)	Unit 2: Colorimeter – Beer-Lambert’s Law Unit 4: Affinity Chromatography	Lecture cum demo of the various components	Biological Instrumentation and Methodology by P.K Bajpai	
Dec. 15 - 21, 2018 (Day Order 1 to 6)	Unit 2: Single Beam Colorimeter Unit 4: GLC,	Lecture cum demo of the various components	Biological Instrumentation and Methodology by P.K Bajpai	
Jan. 03- 09, 2019 (Day Order 1 to 6)	Unit 2: Colorimeter determination of Vit B-12 Unit 4: HPLC & RPHPLC	Practical	Biological Instrumentation and Methodology by P.K Bajpai	Assignment
Jan. 10- 21, 2019 (Day Order 1 to 6)	Unit 4: Separation of Chlorophyll by TLC and Paper Chromatography	Lecture cum demo of the various components	Biological Instrumentation and Methodology by P.K Bajpai	
Jan. 22, 2019 (Day Order 1)	REVISION			
Jan.23 - 29, 2019	C.A. Test			
Jan.30 – Feb 05, 2019 (Day Order 2 to 6)	Unit 3: Spectrophotometer – single beam Unit 5: Electrophoresis – Capillary,	Lecture	Biotechniques theory and practice by S.V.S Rana Handbook of Capillary Electrophoresis	

			by James	
Feb.06 - 13, 2019 (Day Order 1 to 6)	Unit 3: Spectrophotometer – Double beam Unit 5: Gel – Agarose Electrophoresis	Lecture	Biotechniques theory and practice by S.V.S Rana Handbook of Capillary Electrophoresis by James	
Feb.14 - 21, 2019 (Day Order 1 to 6)	Unit 3: UV –Visible Spectrophotometer Unit 5: Electrophoresis – OFAGE	Lecture cum demo of the various components of spectrophometers (Double beam & UV)	Biotechniques theory and practice by S.V.S Rana Handbook of Capillary Electrophoresis by James	Quiz
Feb.22 – Mar. 01, 2019 (Day Order 1 to 6)	Unit 3: Estimation of Protein using Spectrophotometer	Practical	Biotechniques theory and practice by S.V.S Rana	
Mar 04 -11, 2019 (Day Order 1 to 6)	Unit 5: Electrophoresis – FIGE	Lecture	Handbook of Capillary Electrophoresis by James	
Mar. 12 - 19, 2019 (Day Order 1 to 6)	Unit 5: Immunolectrophoresis	Lecture OHP	Immunology - Dubey	
Mar. 20 - 26, 2019 (Day Order 1 to 6)	Unit 5: Separation of Proteins	Practical		
Mar. 27 - 28, 2019 (Day Order 1 to 2)	REVISION DAYS			

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI

Course Schedule – November 2018 – April 2019

Department : **BOTANY**
Name of the Faculty : **Dr. S. Sathya Bama**
Course Title : **Anatomy and Embryology of Angiosperms**
Course Code : **15BT/MC/AE44**
Shift : **I**

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
Nov. 14 - 20, 2018 (Day Order 1 to 6)	1.1 Meristems: Classification, Organisation of shoot apex and root apex. 1.2. Lateral meristems: Vascular cambium- structure and formation.	Lecture using PPT	Plant Anatomy by B.P.Pandey Anatomy of Seed Plants by Singh, V., P.C. Pande and D.K. Jain	
Nov. 22 - 29, 2018 (Day Order 1 to 6)	1.3. Cork Cambium: Periderm -Phellem, Phellogen and Phelloderm, Development, location, Morphology of Bark, commercial bark, Protective tissues of monocot and Lenticels.	Lecture through Chalk and board method (To teach students the technique and scientific method of drawing different types of cells	-do- Plant Anatomy by Fahn	
Nov. 30 – Dec 06, 2018 (Day Order 1 to 6)	2.1. Secondary xylem: vessels, Tracheids, Wood parenchyma and rays, Sap wood, heartwood, Annual rings, Dendrochronology.	-do-	-do- Applied Plant Anatomy by Cutter, D.F	Assignment on Wood parenchyma and rays, Sap wood , Heart wood , Annual rings and Dendrochronology

Dec 07 - 14, 2018 (Day Order 1 to 6)	Unit2.2. Secondary phloem: Sieve tubes, Companion cells, phloem parenchyma and fibres	-do-	-do-	
Dec. 15 - 21, 2018 (Day Order 1 to 6)	Unit3.1.Secondary growth of normal dicot root and dicot stem. Unit3.2.Anomalous growth: Primary structures in Dicots Secondary structures.	Lecture Cum practical exposure	-do-	Dec. 15, 2017 – Submission of Assignment
Jan. 03- 09, 2019 (Day Order 1 to 6)	Unit3.2.Anomalous growth: Secondary structures in Dicots Unit3.3. Primary thickening meristem in monocots	Lecture cum practical exposure	-do-	
Jan. 10- 21, 2019 (Day Order 1 to 6)	Unit3.4.Anomalous secondary thickening in monocot stem - <i>Dracaena</i> . Unit4.1.Leaf – Internal Structure of Dorsiventral, Isobilateral and Centric leaf.	Lecture through Black board Practical study of the internal structures	Plant Anatomy by B.P.Pandey Anatomy of Seed Plants by Singh,V., P.C. Pande and D.K. Jain Plant Anatomy by Cutter,E.G.	
Jan. 22, 2019 (Day Order 1)	REVISION			
Jan.23 - 29, 2019	C.A. Test			

Jan.30 – Feb 05, 2019 (Day Order 2 to 6)	Unit 4.1 Leaf Abscission	Lecture through chalk and board method	Anatomy of Seed Plants by Singh, V., P.C. Pande and D.K. Jain	
Feb.06 - 13, 2019 (Day Order 1 to 6)	Unit 4.2 Epidermis – Stomata – Structure and Types Unit 4.3 Epidermal Hairs and Appendages	Lecture through chalk and board and practical	- Do-	
Feb.14 - 21, 2019 (Day Order 1 to 6)	Unit 5.1. Microsporangium: Microsporogenesis –Male gametophyte. Unit5.2.Megasporangium: Megasporogenesis – Female gametophyte -- Monosporic (Polygonium)	Lecture through PPT and chalk and board method	Embryology of angiosperms by Bhojwani and Bhatnagar; Angiosperm Embryology by Muneeswaran	
Feb.22– Mar 01, 2019 (Day Order 1 to 6)	Unit 5.2 Female Gametophyte - Bisporic (Allium) and tetrasporic (Peperomia)	-do-	-do-	Quiz on 23/02/18 from subunits, 5.1 & 5.2
Mar 04– Mar 11, 2019 (Day Order 1 to 6)	Unit5.3. Double Fertilization Apomixis	-do-	-do-	
Mar. 12 - 19, 2019 (Day Order 1 to 6)	Unit 5.4 Endosperm - Types and functions; Ruminate endosperm Unit 5.5 Development of Dicot Embryo- Capsella brusa pastoris	Lecture through Board and Chalk method	-do-	
Mar. 20 - 26, 2019 (Day Order 1 to 6)	Unit 5.5 Polyembryony	-do-	-do-	
Mar. 27 - 28, 2019 (Day Order 1 to 2)	REVISION DAYS			

STELLA MARIS COLLEGE (AUTONOMOUS),CHENNAI

Course Schedule – November 2018 – April 2019

Department : Botany
Name/s of the Faculty : Ms. Antony Rose Immaculate
Course Title : Waste Management
Course Code : 15BT/GE/WM23
Shift : I

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
Nov. 14 -20, 2018 (Day Order 1 to 6)	Unit1 Introduction 1.1.Solid waste &Liquid waste 1.2. Waste generation and sources-Municipal, Kitchen, Garden, Agriculture & industrial	Lecture through PPT	A Textbook of environmental Sciences by Purohit Environmental Biotechnology, Battacharya	Assignment
Nov. 22 - 29, 2018 (Day Order 1 to 6)	Unit 2 Recycling of waste 2.1. Composting- Principles, process and factors affecting composting 2.2. Biodung method	Lecture Practical	Vermicomposting for sustainable Agriculture by Gupta, P. K. Vermicology by Ismail, S.A.	
Nov. 30 – Dec 06, 2018 (Day Order 1 to 6)	2.3. Vermiculture Biotechnology: Types of earth worms, Culturing of earthworms, Vermibed maintenance	Lecture cum PPT	-do- Vermiculture and organic farming by Sathe	Oral Questioning
Dec 07 - 14, 2018 (Day Order 1 to 6)	2.4. Vermicomposting: Principle and process 2.5. Types of vermicomposting-Heap and Pit Method	Lecture cum demo	-do-	
Dec. 15 - 21, 2018 (Day Order 1 to 6)	Unit 3 Sewage Disposal 3.1. Primary treatment	Lecture through PPT	A Textbook of environmental Sciences by Purohit	Oral questioning

	3.2. Secondary Treatment-Septic tanks, Trickling filters and oxidation pond		Microbiology by Prescott, Harley and Klein	
Jan. 03- 09, 2019 (Day Order 1 to 6)	Anaerobic - Sludge digestion Tertiary Treatment-Chemical, Ozone and Reverse Osmosis	Lecture	-do-	
Jan. 10- 21, 2019 (Day Order 1 to 6)	Unit 4 Bio monitoring of Water Quality and Water Purification 4.1. Test for water purity- coliform test and Membrane Filte Test for water purity- coliform test and Membrane Filter technique r technique	Lecture	Microbiology by Powar (Vol. 2) Analysis of waste water for use in Agriculture by Rachel	
Jan.22, 2019 (Day Order 1)	4.2. Testing for purity of water- Coliform test	Practical	Analysis of waste water for use in Agriculture by Rachel	Submission of result
Jan.23 - 29, 2019	C.A. Test			
Jan.30 – Feb 05, 2019 (Day Order2 to 6)	4.2. Physical Analysis of water- pH, Color,	Practical	Analysis of waste water for use in Agriculture by Rachel	Submission of result
Feb.06 - 13, 2019 (Day Order 1 to 6)	4.2. Testing for purity Turbidity, TDS, chemical Analysis of water – salinity,	Practical	Analysis of waste water for use in Agriculture by Rachel	Submission of result
Feb.14 - 21, 2019 (Day Order 1 to 6)	4.2. Hardness and nitrate content 4.3. Water treatment – steps involved in water Treatment in a Typical Water Purification Plant	Practical & Lecture	-do-	
Feb.22- Mar.01, 2019	4.3. Water treatment – steps	Practical & Lecture	-do-	

(Day Order 1 to 6)	involved in water Treatment in a typical water purification plant			
Mar. 04– 11, 2019 (Day Order 1 to 6)	Unit 5 Transformation of wastes 5.1. Recycling of paper	Lecture through PPT	Modern Technology of waste Management by NIIR Board	
Mar. 12 - 19, 2019 (Day Order 1 to 6)	5.1. Recycling of paper	Practical work	Modern Technology of waste Management by NIIR Board	Submission of recycled products
Mar. 20 - 26, 2019 (Day Order 1 to 3)	5.2. E-waste	-do-	-do-	
Mar. 27 - 28, 2019 (Day Order 1 to 6)	REVISION			

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI

Course Schedule – November 2018 – April 2019

Department : Botany
Name/s of the Faculty : Dr. Geradette Davey
Course Title : Genetics, Plant Breeding and Evolution
Course Code : 15BT/MC/GP64
Shift : I

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
Nov. 14 - 20, 2018 (Day Order 1 to 6)	1.1 Mendelian Genetics	Lecture	Cytology, Genetics and Evolution by Gupta, P.K.	
Nov. 22 - 29, 2018 (Day Order 1 to 6)	1.2 Gene interactions	Problem- Solving	Fundamentals of Genetics by Singh, B.D.	Quiz
Nov. 30 – Dec 06, 2018 (Day Order 1 to 6)	1.2 Gene interactions and 1.3 Multiple Gene Inheritance	Problem- Solving	The Science of Genetics by Burns, G.W.	
Dec 07 - 14, 2018 (Day Order 1 to 6)	1.4 Extra - Chromosomal Inheritance 2.1 Linkage in Maize	Lecture	Essentials of Genetics by Klug, H.N. Klug, W.S. and- Cummings, M. R.	
Dec. 15 - 21, 2018 (Day Order 1 to 6)	2.2 Theories of Crossing Over 2.3 Mapping of Genes 2.4 Sex Determination in <i>Melandrium</i>	Lecture	Genetics by/ Strickberger, M.W.	
Jan. 03- 09, 2019 (Day Order 1 to 6)	2.5 Sex- linkage in Man	Lecture	Fundamentals of Genetics by	Assignment

	3.2 Klinefelter's Syndrome 3.3 Sickle Cell Anaemia		Singh, B.D Textbook of human genetics Levitan, M..	
Jan. 10- 21, 2019 (Day Order 1 to 6)	3.4 Genetic Counselling	Case Study	Practical Genetic Counselling by Harper, P.S.	
Jan. 22, 2019 (Day Order 1)	Revision			
Jan.23 - 29, 2019	C.A. Test			
Jan.30 – Feb 05, 2019 (Day Order 2 to 6)	4.1 Objectives of Plant Breeding	Lecture	Elementary Principles of Plant Breeding by Chaudhari, H.K.	
Feb.06 - 13, 2019 (Day Order 1 to 6)	4.2 Selection Methods	Lecture	Plant Breeding by Kumaresan, V.	
Feb.14 - 21, 2019 (Day Order 1 to 6)	4.3 Basic Hybridization Techniques	Lecture	Plant Breeding: Principles and Methods by Singh, B. D.	
Feb.22 – Mar. 01, 2019 (Day Order 1 to 6)	4.4 Induced Polyploidy in Plant Breeding	Lecture	Principles of Plant Breeding by Allard, R.W.	
Mar 04 -11, 2019 (Day Order 1 to 6)	5.1 Origin of Life	Lecture	Cell Biology, Genetics, Molecular Biology, Evolution and Ecology by Verma, P.S. and Agarwal, V.K.	
Mar. 12 - 19, 2019 (Day Order 1 to 6)	5.2 Theories of Evolution	Lecture	The Evolution of Plants by Willis,	

			K. J. and McElwain, J. C.	
Mar. 20 - 26, 2019 (Day Order 1 to 6)	5.3 Isolating Mechanisms	Lecture	Cytology, Genetics and Evolution by Gupta, P.K.	
Mar. 27 - 28, 2019 (Day Order 1 to 2)	REVISION DAYS			

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI**Course Schedule – November 2018 – April 2019**

Department : BOTANY
Name/s of the Faculty : Dr. H. Shakila
Course Title : Plant Biotechnology & Genetic Engineering
Course Code : 15BT/MC/PG64
Shift : I

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
Nov. 14 - 20, 2018 (Day Order 1 to 6)	1.1.Totipotency,Culture techniques: Equipment, Media,	Lecture cum demonstration	Elements of biotechnology by Gupta P.K	
Nov. 22 - 29, 2018 (Day Order 1 to 6)	1.1. Explant, Callus formation, Organogenesis. 1.2. Root culture, Shoot culture	Lecture and PPT	Biotechnology by Satyanarayana	
Nov. 30 – Dec 06, 2018 (Day Order 1 to 6)	1.2. Anther and pollen culture 1.3. Cell Culture, Protoplast culture- Isolation, culture and Regeneration	Lecture and PPT	Biotechnology by Satyanarayana	
Dec 07 - 14, 2018 (Day Order 1 to 6)	1.4 Somaclonal Variation 1.5. Somatic hybridization and Cybrid: Spontaneous and induced fusion 1.6. Applications: Horticulture, Pharmaceutical industry	Lecture	Elements of biotechnology by Gupta P.K	
Dec. 15 - 21, 2018 (Day Order 1 to 6)	2.1.Transgenic plants for crop improvement: Herbicide resistance, Insect resistance, Resistance against viral, bacterial and fungal pathogens	Lecture	A Text book of Biotechnology by Dubey R.C	QUIZ

Jan. 03- 09, 2019 (Day Order 1 to 6)	2.2. Transgenic plants-Edible vaccines: Transgenic plants as recombinant protein production systems, choice of plant species for recombinant vaccine production	Lecture	A Text book of Biotechnology by Dubey R.C	
Jan. 10- 21, 2019 (Day Order 1 to 6)	2.2 GM Plants: Bt Brinjal, Cotton, Golden Rice	Lecture	A Text book of Biotechnology by Dubey R.C	
Jan. 22, 2019 (Day Order 1)	REVISION			
Jan.23 - 29, 2019	C.A. Test			
Jan.30 – Feb 05, 2019 (Day Order 2 to 6)	2.3 Bioethics and Biosafety 3.1 Bioethanol	Lecture and OHP	Industrial Microbiology by Patel. A.H	
Feb.06 - 13, 2019 (Day Order 1 to 6)	3.2 Biohydrogen and Gobar gas 3.3 Bio diesel : Petroplants	Lecture and OHP	Industrial Microbiology by Patel. A.H	ASSIGNMENT SUBMISSION
Feb.14 - 21, 2019 (Day Order 1 to 6)	4.1 Introduction to Genetic Engineering 4.2 Techniques: Restriction Endonucleases, Ligation	Lecture and PPT	Biotechnology by Satyanarayana	
Feb.22 – Mar. 01, 2019 (Day Order 1 to 6)	4.3 Cloning Vectors: pUC 18, YAC and BAC 4.4 Genomic Libraries	Lecture	Biotechnology by Satyanarayana	
Mar 04 -11, 2019 (Day Order 1 to 6)	4.5 Hybridization – Southern and Northern Blotting	Lecture	Elements of biotechnology by Gupta P.K	
Mar. 12 - 19, 2019 (Day Order 1 to 6)	5.1 Target cells for Transformation 5.2 Gene Transfer Technique using <i>Agrobacterium</i>	Lecture	Biotechnology by Satyanarayana	
Mar. 20 - 26, 2019	5.3 Physical Delivery	Lecture	Biotechnology	

(Day Order 1 to 6)	Methods: PEG stimulated, Microprojectile, Electroporation		by Satyanarayana	
Mar. 27 - 28, 2019 (Day Order 1 to 2)	REVISION DAYS			

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI

Course Schedule – November 2018 – April 2019

Department : Botany
Name/s of the Faculty : Ms. Antony Rose Immaculate
Course Title : Plant Physiology
Course Code : 15BT/MC/PP64
Shift : I

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
Nov. 14 - 20, 2018 (Day Order 1 to 6)	Unit 1:Water relations in plants 1.1 Water potential 1.2 Transpiration: Mechanism of stomatal transpiration, ATP driven exchange pump, Role of ABA in stomatal opening & Closure	Lecture with Demo on water potential in plants – Chardokaff method	Plant Physiology by Devlin Modern plant Physiology by Sinha. R.K Plant Physiology by Taiz and Zeiger	
Nov. 22 - 29, 2018 (Day Order 1 to 6)	1.3 Water movement across the root and xylem Unit 2:Mineral nutrients: 2.1 Micro and Macro nutrients	Lecture	Text Book of Plant Physiology by Verma. V	Assignment on Micro & Macro nutrients
Nov. 30 – Dec 06, 2018 (Day Order 1 to 6)	2.2 Mechanism of mineral salt absorption: Theories 2.3 Transport of organic solutes 2.3 Phloem loading and unloading	Lecture & PPT	Text Book of Plant Physiology by Verma. V Plant physiology by Salisbury & Ross	
Dec 07 - 14, 2018 (Day Order 1 to 6)	2.4 Source of Nitrogen, Biochemistry of Nitrogen fixation	Lecture	Text Book of Plant Physiology by Verma. V	
Jan. 10- 21, 2019 (Day Order 1 to 6)	3.2 CO ₂ assimilation pathway: C3, C4 cycles and CAM, Photorespiration	Lecture & PPT	Plant Physiology by Devlin Modern plant Physiology by Sinha. R.K	

Jan. 22, 2019 (Day Order 1)	Factors influencing photosynthesis & Revision	Lecture cum demo	Plant Physiology by Noggle & Fritz	
Jan.23 - 29, 2019	C.A. Test			
Jan.30 – Feb 05, 2019 (Day Order 2 to 6)	Unit 4: Respiration 4.1 Respiratory quotient, Fermentation and Anaerobic processes	Lecture cum demonstration on fermentation & Estimation of Respiratory Quotient	Plant Physiology by Devlin Modern plant Physiology by Sinha. R.K	Submission of reports for group projects (III component)
Feb.06 - 13, 2019 (Day Order 1 to 6)	4.2 Glycolysis, Substrate level phosphorylation Entner-Doudroff pathway, Glyoxylate cycle.	Lecture	Plant Physiology by Devlin Modern plant Physiology by Sinha. R.K	
Feb.14 - 21, 2019 (Day Order 1 to 6)	4.3 Krebs cycle, Electron flow components Electron Transport pathway, Oxidative phosphorylation and Cyanide resistant pathway	Lecture & PPT	Plant Physiology by Devlin Modern plant Physiology by Sinha. R.K	
Feb.22 – Mar. 01, 2019 (Day Order 1 to 6)	Unit 5: Growth and Growth Regulators 5.1 Growth: Kinetics and growth curve 5.2 Chemical Nature, Bioassay, Physiological effect and practical applications of Auxin, ABA.	-do-	Text Book of Plant Physiology by Verma. V Plant Physiology by Noggle & Fritz	Quiz
Mar 04 -11, 2019 (Day Order 1 to 6)	5.2 Cytokinin, Gibberellic acid and Ethylene	Lecture & demonstration on the responses of plants to hormones	Text Book of Plant Physiology by Verma. V Plant Physiology by Noggle & Fritz	
Mar. 12 - 19, 2019 (Day Order 1 to 6)	5.3 Photoperiodism, Florigen concept	Lecture	Text Book of Plant Physiology by Verma. V &	

			Plant Physiology V.K. Jain	
Mar. 20 - 26, 2019 (Day Order 1 to 6)	5.3 Vernalization Revision	Lecture	Text Book of Plant Physiology by Verma. V Plant Physiology by Bidwell	
Mar. 27 - 28, 2019 (Day Order 1 to 2)	REVISION DAYS			

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI

Course Schedule – November 2018 – April 2019

Department : BOTANY
Name/s of the Faculty : Dr. S.SATHYA BAMA & Dr. S. DIANA VINODHINI
Course Title : HORTICULTURE
Course Code : 15BT/ME/HC55
Shift : I

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
Nov. 14 - 20, 2018 (Day Order 1 to 6)	Unit1.1. Classification of Horticultural plants Unit3.1: Growing plants in Pots, Potting and Repotting	Lecture through chalk and board Lecture through practical exposure	Introduction to Horticulture by Kumar N Horticulture by Sheela V L	
Nov. 22 - 29, 2018 (Day Order 1 to 6)	Unit 1.2 Garden Implements Unit 3.3: Hanging Basket	Lecture showing garden implements Lecture through PPT	-do-	Quiz
Nov. 30 – Dec 06, 2018 (Day Order 1 to 6)	Unit 1.3.Garden and its components: Fencing hedge, borders Unit 3.4: Kitchen Garden – Layout	Lecture through power point presentation Lecture through practical exposure	Horticulture by V. L. Sheela Introduction to Horticulture by Kumar N Horticulture Principles and Practices by George Acquah	
Dec 07 - 14, 2018 (Day Order 1 to 6)	Unit 1.3. Garden and its components: Flower beds, Edging and lawn Unit 3.5: Market	Lecture through chalk and board	Horticulture by V. L. Sheela Introduction to	

	Garden and Truck Garden	Lecture through PPT	Horticulture by Kumar N Vegetable Production in India by Chauhan Vegetable crops of India by Yawalker	
Dec. 15 - 21, 2018 (Day Order 1 to 6)	Unit 1.3. Garden and its components: Drives and paths Unit 3.6: Rock Garden and Terrace Garden	Lecture through PPT Lecture through PPT	Introduction to Horticulture by Kumar N Ornamental Horticulture in India, Today and Tomorrow by Randhawa G S	
Jan. 03- 09, 2019 (Day Order 1 to 6)	Unit 1.3. Garden and its components: Water garden and Garden adornments Unit 1.4. Vegetative Propagation: layering, grafting and budding Unit 3.7: Vegetable Forcing	Lecture through PPT Lecture through Chalk and Board method	Introduction to Horticulture by Kumar N Vegetable Production in India by Chauhan	
Jan. 10- 21, 2019 (Day Order 1 to 6)	Unit 1.5. propagating methods Unit.5.1: Cut Flower Arrangement: Fresh and Dry	Lecture through power point presentation Practical demonstration	Introduction to Horticulture by N. Kumar Introduction to Horticulture by Kumar N Horticulture Principles and Practices by George Acquaah	Flower Arrangement
Jan 22, 2019	Revision			

(Day Order 1)				
Jan. 23 – 29, 2019	C.A. Test			
Jan. 30 - Feb 05, 2019 (Day Order 2 to 6)	Unit 5.2: Economic Flowers: Rose and Jasmine	Lecture through chalk and board method	Introduction to Horticulture by Kumar N	
Feb. 06 – Feb 13, 2019 (Day Order 1 to 6)	Unit 2.1.1. Propagation, planting and harvesting of fruits: Mango	Lecture through power point presentation	South Indian fruits and their culture by K.C. Naik	
Feb.14 - 21, 2019 (Day Order 1 to 6)	Unit 2.1.1. Propagation, planting and harvesting of fruits: banana and guava Unit 5.2: Economic Flowers: Jasmine	Lecture through PPT Lecture through chalk and board method	South Indian fruits and their culture by K.C. Naik Introduction to Horticulture by Kumar N	
Feb.22 – Mar.01, 2019 (Day Order 1 to 6)	Unit 2.1.2. Propagation, planting and harvesting of vegetative crops: Onion and potato Unit 5.3: Bonsai	Lecture through PPT Lecture through PPT	Vegetative production in India by D.V.S. Chauhan Introduction to Horticulture by Kumar N Ornamental Horticulture in India, Today and Tomorrow by Randhawa, G S	
Mar 04 -11, 2019 (Day Order 1 to 6)	Unit 2.1.2. Propagation, planting and harvesting of vegetative crops: Brinjal and Lady's finger	Lecture through PPT	Vegetative production in India by D.V.S. Chauhan	

	Unit 5.4: Terrarium	Lecture through practical demonstration	Introduction to Horticulture by Kumar N	
Mar 12 -19, 2019 (Day Order 1 to 6)	Unit 4.1: Lawn making and its Maintenance Unit 4.2 Landscape Gardening	Lecture through PPT and by showing the gardens of Stella Maris College Lecture through power point presentation	Introduction to Horticulture by Kumar N Ornamental Horticulture in India, Today and Tomorrow by Randhawa, G S	
Mar. 20- 26, 2019 (Day Order 1 to 6)				
Mar. 27 - 28, 2019 (Day Order 1 to 2)	REVISION DAYS			

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI

Course Schedule – November 2018 – April 2019

Department : Botany
Name of the Faculty : Dr. S. Diana Vinodhini
Course Title : Floriculture
Course Code : 15BT/GE/FR23
Shift : I

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
Nov. 14 - 20, 2018 (Day Order 1 to 6)	Unit1.1. Aim and scope of Floriculture Unit 1.2. Diversification of Floriculture in India	Lecture through PPT	Complete Gardening in India by Gopalswamy Iyengar	
Nov. 22 - 29, 2018 (Day Order 1 to 6)	Unit 1.3. Common Garden operations 1.4. Soil types	Lecture through chalk and board	Introduction to Horticulture by N. Kumar	
Nov.30 - Dec 06, 2018 (Day Order 1 to 6)	1.5. Manures, Fertilizers, Biofertilizers and Vermicompost and Growth regulators			
Dec. 7 – 14, 2018 (Day Order 1 to 6)	Unit 2. Techniques 2.1. Techniques of growing plants. Preparation of Ground and Beds, Potting and Repotting, Types of pots and Hanging Baskets	Lecture through PPT	-do-	

Dec 15 - 21, 2018 (Day Order 1 to 6)	Unit 2.3. Preparation and usage of biopesticide Unit 3 Unit 3.1. Vegetative propagation methods – Cutting	Lecture through chalk and board	-do-	Quiz
Jan.03- 09, 2019 (Day Order 1 to 6)	Grafting and layering	Lecture through PPT	Horticulture by V. L. Sheela	
Jan. 10 - 21, 2019 (Day Order 1 to 6)	Unit 2.2 & 3.2 Practicals	Lecture through chalk and board	-do-	
Jan. 22, 2019 (Day Order 1)	Vegetative propagation Revision	Lecture through PPT	Introduction to Horticulture by N. Kumar	
Jan.23- 29, 2019	C.A. Test			
Jan. 30 - Feb 05, 2019 (Day Order 2 to 6)	Unit 3.3. Green House conditions	Visit to Green House	Introduction to Horticulture by N. Kumar	
Feb.06 - 13, 2019 (Day Order 1 to 6)	Unit 4 Commercial Floriculture I 4.1 Ikebana 4.2.Study of quality parameters for cut flowers			
Feb.14 - 21, 2019 (Day Order 1 to 6)	Unit 4.3. Holding of Cut flowers	Lecture through PPT	Introduction to Horticulture by Kumar N	
Feb.22 – Mar. 01, 2019	Packing Cartons	Lecture through	-do-	

(Day Order 1 to 6)	and methods to prolong vase life	PPT		
Mar.04 - 11, 2019 (Day Order 1 to 6)	Unit 5.1 Commercial uses of flowers	Lecture through PPT	Commercial flowers by Bose and Yadev	Flower arrangement
Feb.20 - 27, 2018 (Day Order 1 to 6)	Unit5.2. Long stem cut flowers	Lecture through PPT	Introduction to Horticulture by Kumar N	
Mar.12 – 19, 2019 (Day Order 1 to 6)	Unit 5.3. Specific cultural requirements of certain crops Unit 5.4. Preparation of flowers for display	Lecture through PPT	Introduction to Horticulture by Kumar N	
Mar. 20 - 26, 2019 (Day Order 1 to 6)	Units 5.5. & 5.6. Flower arrangement – Fresh and Dry	Lecture through PPT	Commercial flowers by Bose and Yadev	
Mar. 27 - 28, 2019 (Day Order 1 to 2)	REVISION DAYS			