Course Schedule – November 2016 – April 2017

Department : Botany

Name/s of the Faculty : Mrs. Madhu Priya M

Course Title : Bryophytes, Pteridophytes, Gymnosperms

Course Code : 15BT/MC/BP 24

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
Nov. 14 - 19, 2016	1.1. Classification of	Lecture and OHP	A Textbook of	
(Day Order 1 to 6)	Bryophyta (Proskauer,		Botany Vol II-	
	1957) and		Bryophytes,	
	characteristic features		Pteridophytes and	
	of following classes:		Gymnosperms by	
	Hepaticopsida,		Pandey,S.N., P.S	
	Anthocerotopsida,		Trivedi and A	
	Bryopsida		Misra.	
Nov. 21 - 28, 2016	1.2. Classification of	Lecture and OHP	A Textbook of	
(Day Order 1 to 6)	Pteridophyta		Botany Vol II-	
	(Reimers, 1951) and		Bryophytes,	
	characteristic features		Pteridophytes and	
	of the following		Gymnosperms by	
	classes: Lycopsida,		Pandey,S.N., P.S	
	Sphenopsida and		Trivedi and A	
	Pteropsida		Misra.	
Nov. 29 – Dec 5,	1.3. Classification of	Lecture and OHP	A Textbook of	Oral Question
2016	Gymnospermae		Botany Vol II-	
(Day Order 1 to 6)	(Bierhorst, 1971) and		Bryophytes,	
	characteristic features		Pteridophytes and	
	of the following		Gymnosperms by	

	classes: Cycadopsida		Pandey,S.N., P.S	
	and Gnetopsida.		Trivedi and A	
	January and management of the control of the		Misra.	
Dec 6 - 14, 2016	Bryophytes	Lecture Cum	Bryophytes by	Third
(Day Order 1 to 6)	2.1. A detailed study	Demonstration	Srivastava, H.N.	Component
(Buy Graer 1 to 6)	of the thallus structure,	Demonstration .	Sirvastava, iirv	QUIZ on 8.12.16
	anatomy and		The structure and	QC12 on 0.12.10
	reproduction of the		Life of	
	following (no		Bryophytes by	
	development):		Watson, E.V.	
	Hepaticopsida –		vv atson,E. v .	
	Porella.			
Dec 15 21 2016		Lecture Cum	Dayronhystag by	
Dec. 15 - 21, 2016	2.1 Anthocerotopsida		Bryophytes by	
(Day Order 1 to 6)	- Anthoceros,	Demonstration	Srivastava, H.N.	
			The structure and	
			Life of	
			Bryophytes by	
			Watson,E.V.	
Jan. 03- 09, 2017	2.1 Bryopsida -	Lecture Cum	Bryophytes by	Diagram Test
(Day Order 1 to 6)	Polytrichum	Demonstration	Srivastava, H.N.	
			The structure and	
			Life of	
			Bryophytes by	
			Watson,E.V.	
Jan. 10- 17, 2017	Pteridophytes	Lecture Cum	Morphology of	Herbarium
(Day Order 1 to 6)	3.1. A detailed study	Demonstration	Pteridophytes by	
	of the plant body,		Sporne, K.R.	
	anatomy and			
	reproduction of the			
	following: (no			
	development):			
	Lycopsida –			
	, i			

	Lycopodium,			
Jan. 18- 20, 2017	3.1 Sphenopsida –	Lecture Cum	Morphology of	
(Day Order 1 to 3)	Equisetum,	Demonstration	Pteridophytes by	
			Sporne, K.R.	
Jan.23 - 28, 2017		C.A. T	ests	
Jan.30 – Feb 01,	3.1 Filices - Marsilea	Lecture Cum	Morphology of	
2017		Demonstration	Pteridophytes by	
(Day Order 4 to 6)			Sporne, K.R.	
Feb.02 - 09, 2017	Gymnosperms	Lecture Cum	Morphology of	
(Day Order 1 to 6)	4.1.A detailed study of	Demonstration	Gymnosperms by	
	the plant body,		Coulter, J.M.and	
	anatomy and		C.J.Chamberlain	
	reproduction of the			
	following (no			
	development):			
	Cycadopsida - Cycas			
Feb.10 - 17, 2017	4.1 Gnetopsida -	Lecture Cum	Morphology of	
(Day Order 1 to 6)	Gnetum	Demonstration	Gymnosperms by	
			Coulter, J.M.and	
			C.J.Chamberlain	
Feb.20 - 27, 2017	Fossils	Lecture and PPT	Essentials of	Third
(Day Order 1 to 6)	5.1 Table of the		Palaeobotany by	Component
	Geological Time Scale		Sukla & Mishra,	Assignment
			S.P.	(22.2.16)
Feb.28 – Mar 07,	5.2 Process of	Lecture and PPT	Essentials of	
2017	Fossilization		Palaeobotany by	
(Day Order 1 to 6)			Sukla & Mishra,	
			S.P.	
Mar. 06 - 16, 2017		C.A.IMPROVEN	MENT TESTS	
Mar. 08 - 15, 2017	5.3 Fossil forms –	Lecture Cum		
(Day Order 1 to 6)	Pteridophyta:	Demonstration		
	Lepidodendron,			
	Stigmaria			

Mar. 16, 2017	5.3. Fossil forms -	Lecture and PPT	Essentials of	
(Day Order 1)	Lepidostrobus and		Palaeobotany by	
	Lepidocarpon		Sukla & Mishra,	
	Gymnosperma:		S.P	
	Williamsonia			
Mar. 17 - 23, 2017		I		
(Day Order 2 to 6)		REVISI	ION	
March 24, 2017				
(Day Order 1)				

Course Schedule – November 2016 – April 2017

Department : Botany

Name/s of the Faculty : Mrs. Madhu Priya M

Course Title : Fruit Preservation

Course Code : 15BT/GE/FP22

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
		gy		
Nov. 14 - 19, 2016	1.1 Principles of fruit	Lecture and	Food	
(Day Order 1 to 6)	preservation	OHP	Microbiology by	
			Frazier.	
Nov. 21 - 28, 2016	1.2 Types of spoilage	Lecture and OHP	Food Scince by	
(Day Order 1 to 6)	1.3 Factors promoting		Srilakshmi	
	spoilage			
Nov. 29 – Dec 5,	2.1 Methods:	Lecture and OHP	Food	Scrap Book
2016	Refrigeration,		Microbiology by	
(Day Order 1 to 6)	Freezing.		Frazier.	
Dec 6 - 14, 2016	2.1 Methods:	Lecture and OHP	Food	
(Day Order 1 to 6)	Canning, Dehydration		Microbiology by	
			Frazier.	
Dec. 15 - 21, 2016	2.1 Methods:	Lecture and OHP	Food	Third
(Day Order 1 to 6)	Chemical		Microbiology by	Component
	Preservatives		Frazier.	QUIZ on
				17.12.16
Jan. 03- 09, 2017	2.2 Techniques:	Lecture and PPT	Food Scince by	
(Day Order 1 to 6)	Proportion of		Srilakshmi	
	ingredients, Selection			
	of fruits.			
Jan. 10- 17, 2017	2.2 Techniques:	Lecture cum	Food Scince by	
(Day Order 1 to 6)	Estimation Tests	demonstration	Srilakshmi	
Jan. 18- 20, 2017	2.2 Techniques:	Lecture and PPT	Food Scince by	
(Day Order 1 to 3)	Filling and Bottling of		Srilakshmi	

	products and			
	Precautions.			
Jan.23 - 28, 2017	C.A. Tests			
Jan.30 – Feb 01, 2017	3.1 Sugar : Lime	Lecture cum	Food Science by	Quiz on
(Day Order 4 to 6)	Syrup	Hands on	Srilakshmi	preparation of
		Training		products
Feb.02 - 09, 2017	3.1 Sugar : Grape	Lecture cum	Food Science by	
(Day Order 1 to 6)	Crush	Hands on	Srilakshmi	
		Training		
Feb.10 - 17, 2017	3.1 Sugar :Orange	Lecture cum	Food Science by	Third
(Day Order 1 to 6)	Squash	Hands on	Srilakshmi	Component
		Training		Assignment
				(10.2.16)
Feb.20 - 27, 2017	3.1 Sugar : Mixed fruit	Lecture cum	Food Science by	
(Day Order 1 to 6)	jam	Hands on	Srilakshmi	
		Training		
Feb.28 – Mar 07,	3.1 sugar : Guava Jelly	Lecture cum	Handbook of	
2017		Hands on	Food Sciences by	
(Day Order 1 to 6)		Training	Swaminathan, M.	
Mar. 06 - 16, 2017		C.A.IMPROVEM	IENT TESTS	
Mar. 08 - 15, 2017	3.2 Salt : Tomato	Lecture cum	Handbook of	
(Day Order 1 to 6)	chutney	Hands on	Food Sciences by	
		Training	Swaminathan, M.	
Mar. 16, 2017	3.2 Salt : Mixed	Lecture cum	Handbook of	
(Day Order 1)	vegetable Pickle	Hands on	Food Sciences by	
		Training	Swaminathan, M.	
Mar. 17 - 23, 2017		I	1	ı
(Day Order 2 to 6)		REVISI	ON	
March 24, 2017				
(Day Order 1)				

Course Schedule – November 2016 – April 2017

Department : Botany

Name/s of the Faculty : Dr. H. Shakila and Madhu Priya M

Course Title : General Botany - II

Course Code : 15 BT/AC/GB 24

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
Nov. 14 - 19, 2016	1.1 Salient features	Lecture and OHP	Outlines of	Questioning
(Day Order 1 to 6)	of Bryophyta,		Botany by Rao,	
	Pteridophyta and		K. N., and	
	Gymnospermae.		Narayaswamy,	
	2.1 Photosynthesis		R.V.	Practical test
	- Light Reaction:		Plant Physiology	
	Red drop.		by V.K Jain	
Nov. 21 - 28, 2016	1.2 A detailed	Lecture and PPT	Outlines of	
(Day Order 1 to 6)	study of the life		Botany by Rao,	
	cycle (no		K. N., and	
	development) of		Narayaswamy,	
	Funaria.		R.V.	
	2.1 Emerson		Plant Physiology	
	enhancement		by V.K Jain	
	effect, pigment			
	system I and II			
Nov. 29 – Dec 5, 2016	1.3 A detailed	Lecture and PPT	Outlines of	Quiz
(Day Order 1 to 6)	study of the life-		Botany by Rao,	
	cycle (no		K. N., and	
	development) of		Narayaswamy,	
	Adiantum		R.V.	
	2.1		Plant Physiology	
	Phosphorescence,		by V.K Jain	
	Fluorescence,			

	cyclic and non			
	cyclic photo			
	phosphorylation.			
Dec 6 - 14, 2016	1.4 A detailed	Lecture and OHP	Outlines of	Third
(Day Order 1 to 6)	study of the life-		Botany by Rao,	Component
	cycle (no		K. N., and	QUIZ on
	development) of		Narayaswamy,	16.12.16
	Cycas		R.V.	
	2.1 Dark Reaction:		Plant Physiology	
	C3 and C4		by Salisburry and	
			Ross	
Dec. 15 - 21, 2016	4.1. Bonsai	Lecture and PPT	Introduction to	
(Day Order 1 to 6)	technique		Horticulture by	
	2.2 Respiration –		Kumar, N.	
	Aerobic:		Plant Physiology	
	Glycolysis, Krebs		by Salisburry and	
	cycle		Ross	
Jan. 03- 09, 2017	4.2 Cut flowers,	Lecture, OHP and	Introduction to	Test on
(Day Order 1 to 6)	Importance and	PPT	Horticulture by	diagrammatic
	Methods to		Kumar, N.	representation of
	prolong Vase life.		Plant Physiology	ETP
	2.2 Organization of		by Salisburry and	
	the respiratory		Ross	
	chain, electron			
	transport pathway			
	and oxidative			
	phosphorylation			
Jan. 10- 17, 2017	4.3 Flower	Lecture, OHP and	Introduction to	
(Day Order 1 to 6)	arrangement: Fresh	PPT	Horticulture by	
	2.2 Anaerobic		Kumar, N.	
	fermentation.		Plant Physiology	
			by Salisburry and	
			Ross	

Jan. 18- 20, 2017	REVISION			
(Day Order 1 to 3)				
Jan.23 - 28, 2017		C.A. 7	Γests	
Jan.30 – Feb 01, 2017	4.3 Flower	Lecture Cum PPT	Plant	
(Day Order 4 to 6)	arrangement: Dry		Biotechnology by	
	3.1 Plant Growth		Ignacimuthu.	
	Regulators -		Introduction to	
	Auxins,		Horticulture by	
			Kumar, N.	
Feb.02 - 09, 2017	5.1. Principles of	Lecture Cum	Plant	
(Day Order 1 to 6)	Plant tissue culture	demonstration	Biotechnology by	
	3.1 Plant Growth		Ignacimuthu	
	Regulators -			
	Gibberellins			
Feb.10 - 17, 2017	5.1. Principles of	Lecture Cum	Plant	
(Day Order 1 to 6)	Plant tissue culture	demonstration	Biotechnology by	
	Contd		Ignacimuthu	
	3.1 Cytokinins,			
	ABA			
Feb.20 - 27, 2017	5.1. Principles of	Lecture Cum	Plant	Third
(Day Order 1 to 6)	Plant tissue culture	demonstration	Biotechnology by	Component
	Contd		Ignacimuthu.	Assignment
	3.2		Plant Physiology	(28.2.16)
	Photoperiodism-		by Salisburry and	
	Long and Short		Ross	
	day plants-			
	Phytochrome,			
	Florigen.			
Feb.28 – Mar 07, 2017	5.2. Oyster	Guest Lecture and	Plant	
(Day Order 1 to 6)	Mushroom:	workshop	Biotechnology by	
	Cultivation and		Ignacimuthu	
	Marketing.		Biotechnology by	

	3.1 Ethylene- Practical		Sathyanarayana U	
	applications			
Mar. 06 - 16, 2017		C.A. IMPROVE	MENT TESTS	
Mar. 08 - 15, 2017	5.2 Button	Guest Lecture and	Biotechnology by	Submission of the
(Day Order 1 to 6)	Mushroom:	workshop	Sathyanarayana U	report of the
	Cultivation and			workshop
	Marketing			
Mar. 16, 2017	3.2 Vernalisation	Lecture Cum	Plant Physiology	
(Day Order 1)		demonstration	by Salisburry and	
			Ross	
Mar. 17 - 23, 2017				
(Day Order 2 to 6)		REVIS	SION	
March 24, 2017				
(Day Order 1)				

Course Schedule – November 2016 – April 2017

Department : Botany

Name/s of the Faculty : Dr. S. Sathya Bama

Course Title : Anatomy and Embryology of Angiosperms

Course Code : 15BT/MC/AE44

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
Nov. 14 - 19, 2016 (Day Order 1 to 6) Nov. 21 - 28,	1.1Meristems: Classification, Organisation of shoot apex and root apex. 1.2. Lateral meristems: Vascular cambium- structure and formation.	Lecture using PPT Lecture through	Plant Anatomy by B.P.Pandey Anatomy of Seed Plants by Singh,V., P.C. Pande and D.K. Jain	
2016 (Day Order 1 to 6)	Periderm -Phellem, Phellogen and Phelloderm, Development, location, Morphology of Bark, commercial bark, Protective tissues of monocot and Lenticels.	Chalk and board method (To teach students the technique and scientific method of drawing different types of cells	Plant Anatomy by Fahn	Submission of drawing of components of Cambium
Nov. 29 – Dec 5, 2016 (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 6 - 14, 2016				
(Day Order 1 to 6)	Unit2.2. Secondary phloem: Sieve tubes, Companion cells, phloem parenchyma and fibres	-do-	-do-	
Dec. 15 - 21, 2016 (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, 2016 – Submission of Assignment (Third Component)
Jan. 03- 09, 2017 (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- 17, 2017 (Day Order 1 to 6)	Unit3.4.Anomalous secondary thickening in monocot stem - Dracaena. Unit4.1.Leaf – Internal structure of Isobilateral dicot	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. 18- 20, 2017 (Day Order 1 to 3)	Unit 4.1 Leaf Abscission REVISION	Lecture through chalk and board method	Anatomy of Seed Plants by Singh,V., P.C. Pande and D.K. Jain	

Jan.23 - 28, 2017	C.A. Tests				
Jan.30 – Feb 01,	Unit 4.2 Epidermis – Stomata –	Lecture through	- Do-		
2017	Structure and Types	chalk and board			
(Day Order 4 to		and practical			
6)					
Feb.02 - 09, 2017	Unit 4.3 Epidermal Hairs and	Lecture through	Plant Anatomy	Drawing Test on	
(Day Order 1 to	Appendages	chalk and board	by B.P.Pandey	Stomata and	
6)		and practical	Anatomy of Seed	Epidermal Hairs	
		Also by PPT	Plants by		
			Singh,V., P.C. Pande and D.K.		
			Jain		
			Plant Anatomy		
			by Cutter,E.G.		
Feb.10 - 17, 2017	Unit 5.1. Microsporangium:	Lecture through	Embryology of		
(Day Order 1 to	Microsporogenesis –Male	PPT and chalk	angiosperms by		
6)	gametophyte.	and board method	Bhojwani and Bhatnagar;		
,	Unit5.2.Megasporangium:				
	Megasporogenesis – Female gametophyte		Angiosperm Embryology by		
	Monosporic (Polygonium)		Muneeswaran		
Feb.20 - 27, 2017	Unit 5.2 Female Gametophyte - Bisporic				
(Day Order 1 to	(Allium) and tetrasporic	-do-	-do-	Third Component	
6)	(Peperomia)			Quiz on 20/02/17	
Feb.28 – Mar 07,	Unit5.3. Double				
2017	Fertilization	-do-	-do-		
(Day Order 1 to	Apomixis				
6)	-				
Mar. 06 - 16,	C	.A. IMPROVEME	NT TESTS		
2017					
Mar. 08 - 15,	Unit 5.4 Endosperm -	Lecture through			
2017	types and functions; Ruminate endosperm	Board and Chalk	-do-		
(Day Order 1 to	Unit 5.5 Development of Dicot	method			
6)	Embryo- Capsella brusa pastoris, Polyembryony				
	pasions, ronyemonyony	1	1		

Mar. 16, 2017	Unit 5.4 Polyembryony			
(Day Order 1)				
Mar. 17 - 23,				
2017		REVISION	1	
(Day Order 2 to				
6)				
March 24, 2017				
(Day Order 1)				

Course Schedule – November 2016 – April 2017

Department : Botany

Name/s of the Faculty : Dr. Priscilla Jebakumari

Course Title : WASTE MANAGEMENT

Course Code : 11BT/GE/WM23

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
Nov. 14 - 19, 2016 (Day Order 1 to 6)	UNIT – 1 Wastes: Solid and Liquid wastes	Lecture	Environmental Biotechnology, Battacharya	Evaluation
Nov. 21 - 28, 2016 (Day Order 1 to 6)	Waste generation and sources – Municipal, kitchen, Garden, agricultural, Industrial	Lecture	Environmental Biotechnology, Battacharya	
Nov. 29 – Dec 5, 2016 (Day Order 1 to 6)	UNIT – 2 2.1 Composting – Principles, process and factors affecting composting 2.2 Biodung method	Lecture with PPT Practical	Environmental Biotechnology, Battacharya	Scrap Book on Solid and Liquid Waste and mitigation
Dec 6 - 14, 2016 (Day Order 1 to 6)	2.3 Vermiculture Biotechnology: Types of earthworm, Culturing of earth worms, Vermibed Maintenance	Lecture with PPT and Guest Lecture	Vermicomposting for sustainable Agriculture, Gupta Vermiculture and Organic farming, Sathe Vermitech, Sultan Ahmed Ismail	
Dec. 15 - 21, 2016 (Day Order 1 to 6)	Vermicomposting: Principle and Process 2.4 Types of vermicomposting – Heap method,	Lecture cum demo in the field visit to the composting unit at SMC	Modern Technology of Waste Management, NIIR Board	III Component Quiz

Jan. 03- 09, 2017		Lecture cum	Vermitech, Sultan	
(Day Order 1 to 6)		demo in the field	Ahmed	
(Day Order 1 to 0)			Ismail	
			Vermicomposting for	
			sustainable	
			Agriculture,	
			Gupta	
	2.4 Pit method			
Jan. 10- 17, 2017	UNIT – 3 sewage		Modern	
(Day Order 1 to 6)	Disposal		Technology of Waste	
	3.1 Primary Treatment 3.2		Management,	
	Secondary		NIIR Board	
	Treatment – Septic	Lecture	Microbiology by	
	tank		Prescott, Harley	
			and Klein	
Jan. 18- 20, 2017	3.2 Secondary		Environmental	
(Day Order 1 to 3)	treatment –		Microbiology by	
	Trickling filters,		K.Vijaya Ramesh	
	Oxidation pond			
	Revision			
Jan.23 - 28, 2017		C.A. '	Tests	
Jan.30 – Feb 01, 2017	3.2.2. Anaerobic –	Lecture cum PPT		
(Day Order 4 to 6)	Sludge			
(Day Order 1 to 0)	digestion 3.2.3		Microbiology by	
	Tertiary treatment		Prescott, Harley and Klein	
	Chemical, Ozone		Environmental	
	and		Microbiology by	
	Reverse Osmosis		K.Vijaya Ramesh	
Feb.02 - 09, 2017	Unit 4: Test for	Practical		
(Day Order 1 to 6)	water Purity –			
	Coliform and membrane filter			
	technique			
Feb.10 - 17, 2017	Testing the	Practical		Submission of
(Day Order 1 to 6)	physical parameters of			report on water
	water – pH,			analysis(III
	Turbidity, Color, TDS chemical –			Comp)
	Salainity,		Microbiology by	
	Hardness and		Prescott, Harley	
	Nitrate		and Klein	
Feb.20 - 27, 2017	Steps involved in	Lecture cum PPT	Microbiology by	
	-			
(Day Order 1 to 6)	Water treatment in		Prescott, Harley	
(Day Order 1 to 6)	Water treatment in a typical purification plant		Prescott, Harley and Klein	

Feb.28 – Mar 07, 2017 (Day Order 1 to 6)	Unit 5: Recycling of Paper	Lecture and Guest lecture	Environmental Microbiology by K.Vijaya Ramesh	Art out of Waste(Models)- Third
			Microbial Ecology by Maier	Component
Mar. 06 - 16, 2017		C.A. IMPROVE	EMENT TESTS	
Mar. 08 - 15, 2017 (Day Order 1 to 6)	E-waste	Lecture And Group Discussion	Environmental Microbiology by K.Vijaya Ramesh Microbial Ecology by Maier	
Mar. 16, 2017 (Day Order 1)	E-waste	Group Discussion	Online website	
Mar. 17 - 23, 2017 (Day Order 2 to 6) March 24, 2017 (Day Order 1)		REVI	SION	

Course Schedule – November 2016 – April 2017

Department : Botany

Name/s of the Faculty : Dr. H. Shakila & Dr. Priscilla Jebakumari

Course Title : Bioinstrumentation

Course Code : 15BT/AE/BI45

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
Nov. 14 - 19, 2016	Unit 1: Centrifugation	Lecture	Plant	
(Day Order 1 to 6)	– Bench,	ОНР	Microtechnique &	
	Ultracentrifuge,		Microscopy by	
	Refrigerated,		Steven	
	continuous flow and &			
	Microfuge			
Nov. 21 - 28, 2016	Density gradient and	Lecture	Plant	
(Day Order 1 to 6)	Differential	ОНР	Microtechnique &	
	Centrifugation		Microscopy by	
			Steven	
	Isolation of	Practical		
	Chloroplast	11000000		
Nov. 29 – Dec 5,	Unit 2: Colorimeter –	Lecture cum	Biological	Oral Questioning
2016	Beer-Lambert's Law,	demo of the various	Instrumentation	
(Day Order 1 to 6)	Single Beam	components	and Methodology	
	Colorimeter		by P.K Bajpai	
Dec 6 - 14, 2016	Colorimeter	Practical		
(Day Order 1 to 6)	determination of Vit B-		Biological	
	12		Instrumentation	
	Unit 3:		and Methodology	
	Spectrophotometer –	Lecture	by P.K Bajpai	
	single beam			

Dec. 15 - 21, 2016	Spectrophotometer –	Lecture	Biotechniques	QUIZ
(Day Order 1 to 6)	Double beam		theory and	(Third
			practice by S.V.S	Component)
			Rana	
Jan. 03- 09, 2017	UV –Visible	Lecture cum	Biotechniques	
(Day Order 1 to 6)	Spectrophotometer	demo of the various	theory and	
		components of	practice by S.V.S	
		spectrophometers (Double beam &	Rana	
		UV)		
Jan. 10- 17, 2017	Estimation of Protein	Practical	Biotechniques	
(Day Order 1 to 6)	using		theory and	
	Spectrophotometer		practice by S.V.S	
			Rana	
Jan. 18- 20, 2017	Revision			
(Day Order 1 to 3)				
Jan.23 - 28, 2017		C.A. Te	ests	
Jan.30 – Feb 01,	Unit 4:	Lecture	Biological	
2017	Chromatography –		Instrumentation	
(Day Order 4 to 6)	Paper and Thin layer,		and Methodology	
			by P.K Bajpai	
Feb.02 - 09, 2017	Chromatography –	Lecture	Biological	Assignment on
(Day Order 1 to 6)	Column, Ion		Instrumentation	Diagram Test
	Exchange, Affinity		and Methodology	(Third
			by P.K Bajpai	Component)
Feb.10 - 17, 2017	GLC, HPLC &	Lecture	Biotechniques	
(Day Order 1 to 6)	RPHPLC	OHP	theory and	
	Separation of		practice by S.V.S	
	Chlorophyll by TLC	Practical	Rana	
	and Paper			
	Chromatography			

Feb.20 – 27, 2017	Unit 5: Electrophoresis	Lecture and	Handbook of	Visit to Crist	
(Day Order 1 to 6)	– Capillary, Gel –	Guest Lecture	Capillary	Lab and	
	Agarose	ОНР	Electrophoresis by	submission of	
			James	report	
Feb.28 – Mar 07,	Electrophoresis –	Lecture	Handbook of	Assignment on	
2017	OFAGE, FIGE	ОНР	Capillary	Instruments	
(Day Order 1 to 6)			Electrophoresis by	(Third	
			James	Component)	
Mar. 06 - 16, 2017	C.A. IMPROVEMENT TESTS				
Mar. 08 - 15, 2017	Immunoelectrophoresis	Lecture	Immunology -		
(Day Order 1 to 6)		ОНР	Dubey		
	Separation of Proteins	Practical			
Mar. 16, 2017	REVISION				
(Day Order 1)					
Mar. 17 - 23, 2017					
(Day Order 2 to 6)	REVISION				
March 24, 2017					
(Day Order 1)					

Course Schedule – November 2016 – April 2017

Department : Botany

Name/s of the Faculty : Dr. S. Sathya Bama & Ms. Madhu Priya M

Course Title : Applied Biotechnology

Course Code : 11BT/MC/AB64

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
Nov. 14 - 19, 2016	1.1.Totipotency,Culture	Lecture cum	Elements of	Assignment on
(Day Order 1 to 6)	techniques:Equipment,Media,	demonstration	biotechnology	the topic
	3.1.Transgenic plants for crop		by Gupta P.K	'Equipments
	improvement:Herbicide resistance			used for Tissue
	against viral, bacterial and fungal			Culture' on
	pathogens			2.12.16 (Third
				Component)
Nov. 21 - 28, 2016	1.1. Explant, Callus formation,	Hands on		
(Day Order 1 to 6)	Organogenesis.	training on	Biotechnology	
	3.1.Transgenic plants for crop	callus	by	
	improvement: Insect resistance	formation	Satyanarayana	
	against viral, bacterial and fungal			
	pathogens			
Nov. 29 – Dec 5,	1.2. Root culture, Shoot culture	Lecture	Biotechnology	
2016	3.2. Transgenic plants-Edible	through PPT	by	
(Day Order 1 to 6)	vaccines: Transgenic plants as	Hands on	Satyanarayana	
	recombinant protein production	training on		
	systems.	root and shoot		
		culture		
Dec 6 - 14, 2016	1.2. Anther and pollen culture	Lecture	Biotechnology	
(Day Order 1 to 6)	3.2 choice of plant species for	through PPT	by	
	recombinant vaccine production	Hands on	Satyanarayana	
		training on		
		anther culture		

Dec. 15 - 21, 2016	1.3. Cell Culture, Protoplast culture	Lecture	An
(Day Order 1 to 6)	3.3.Biofertilizers	through PPT	Introduction
		Guest lecture	to Plant tissue
		on	culture by
		'Biofertilizers'	Kalyan
			Kumar
			Agriculural
			Biotechnology
			by Purohit
			S,S.
Jan. 03- 09, 2017	1.4. Somaclonal variation	Lecture	An
(Day Order 1 to 6)	4.1 Biofuels: Bioethanol	through OHP	Introduction
	4.2 Biohydrogen and Gobargas		to Plant tissue
			culture by
			Kalyan Kumar
			Industrial
			Microbiology
			by Patel.
Jan. 10- 17, 2017	1.6. Applications: Horticulture,	Lecture	Industrial
(Day Order 1 to 6)	Pharmaceutical industry	through OHP	Microbiology
	4.3. Biodiesel:Petroplants		by Patel.
Jan. 18- 20, 2017	REVISION		
(Day Order 1 to 3)			
Jan.23 - 28, 2017		C.A. Tests	
Jan.30 – Feb 01,	1.5. Somatic hybridization and	Lecture	An
2017	Cybrid: Spontaneous and induced		Introduction
(Day Order 4 to 6)	fusion		to Plant tissue
	5.1.fermentation-Media,Equipment		culture by
	Innoculum		Kalyan
			Kumar
			Industrial
			Microbiology
			by Prescott
			and Dunn

Feb.02 - 09, 2017	1.5. Identification and selection of	Lecture and	Plant	
(Day Order 1 to 6)	hybrid cells.	OHP	Biotechnology	
	5.2. Scale up and Down Stream		by Gupta, P.K	
	processing		Industrial	
			Microbiology	
			by Prescott	
			and Dunn	
Feb.10 - 17, 2017	2.1. Selection- Purline and Clonal.	Lecture and	Plant	QUIZ on
(Day Order 1 to 6)	5.3 Dairy-	PPT	Biotechnology	16.2.16 (Third
	Cheese(Cheddar,Camembert and	Practical	by Gupta, P.K	Component)
	Roquefort)	demonstration	Industrial	
		on different	Microbiology	
		types of	by Prescott	
		cheese	and Dunn	
Feb.20 - 27, 2017	2.2.Hybridization	Lecture	Plant	Oral Quiz
(Day Order 1 to 6)	5.3 Bakery- Bread	through PPT	Biotechnology	
		Practical	by Gupta, P.K	
		demonstration	Industrial	
		on	Microbiology	
		fermentation	by Prescott	
			and Dunn	
Feb.28 – Mar 07,	2.3. Mutation Breeding	Lecture	Plant	Assignment on
2017	5.3Beverages- Wine types and Beer	through PPT	Biotechnology	various types
(Day Order 1 to 6)		Hands on	by Gupta, P.K	of wine (Third
		training on the	Industrial	Component)
		preparation of	Microbiology	
		wine	by Prescott	
			and Dunn	
Mar. 06 - 16, 2017	C.A. IMI	PROVEMENT T	ESTS	1
Mar. 08 - 15, 2017	2.4. Marker Assisted Selection,	Lecture	Plant	
(Day Order 1 to 6)	Marker Assisted Breeding	through PPT	Biotechnology	
	5.3.Enzyme-Amylase	Demonstration	by Gupta, P.K	
		on enzyme	Industrial	
		activity of	Microbiology	
		amylase.	by Prescott	
			and Dunn	
L		I	1	

Mar. 16, 2017	5.3. Vitamin-B ₁₂	Lecture and	Industrial	
(Day Order 1)		PPT	Microbiology	
			by Prescott	
			and Dunn	
Mar. 17 - 23, 2017		1		
(Day Order 2 to 6)		REVISION		
March 24, 2017				
(Day Order 1)				

Course Schedule – November 2016 – April 2017

Department : Botany

Name/s of the Faculty : Dr.H.Shakila

Course Title : Molecular Biology
Course Code : 11BT/MC/ML64

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
Nov. 14 - 19, 2016 (Day Order 1 to 6)	UNIT – 1 Introduction to Molecular biology DNA and RNA as genetic material	Lecture Hands on training on DNA isolation	Cytology By P.S. Verma	
Nov. 21 - 28, 2016 (Day Order 1 to 6)	Mutations - Introduction and types	Lecture PPT	Cytology By P.S. Verma Cell and Molecular biology By Ajoy Paul	Problems
Nov. 29 – Dec 5, 2016 (Day Order 1 to 6)	DNA – Types - Linear,Fragility Denaturation and Renaturation Molecular structure of RNA	Lecture OHP	P.S. Verma Cytology By Molecular Biology By Wolfe	
Dec 6 - 14, 2016 (Day Order 1 to 6)	Types of RNA RNA types - Detail account of the different types of RNA	Lecture OHP	P.S. Verma Cytology By Molecular Biology By Wolfe	QUIZ (Third Component)
Dec. 15 - 21, 2016 (Day Order 1 to 6)	Unit 2. Introduction to Transcription & Translation Transcription in Prokaryotes And Eukaryotes	Lecture OHP	A Text book of Biotechnology byU.Sathyanarayana	

Jan. 03- 09, 2017 (Day Order 1 to 6) Jan. 10- 17, 2017	Processing of Eukaryotic mRNA Unit 3: Genetic	Lecture OHP	A Text book of Biotechnology by S. Sathyanarayana Molecular	Problem Solving
(Day Order 1 to 6) Jan. 18- 20, 2017	code Mechanism of Protein synthesis	Hands on training on Protein isolation through SDS page	biology By Clarke	(Third Component)
(Day Order 1 to 3)	REVISION			
Jan.23 - 28, 2017		C.A	Tests	
Jan.30 – Feb 01, 2017 (Day Order 4 to 6)	Unit 4: Operon concept Structural genes	Lecture	Cytology By P.S. Verma	
Feb.02 - 09, 2017 (Day Order 1 to 6)	Lac Operon	Lecture	Cytology By P.S. Verma The Cell by Cooper	Assignment / Model (Third Component)
Feb.10 - 17, 2017 (Day Order 1 to 6)	Trp operon,	Lecture	The Cell by Cooper	
Feb.20 - 27, 2017 (Day Order 1 to 6)	Operon - ,ara Genetic imprinting	Lecture	Molecular biology By Clarke	
Feb.28 – Mar 07, 2017 (Day Order 1 to 6)	Unit 5: Signal transduction - Introduction Types of Signal transduction	Lecture & Guest Lecture	Cell and Molecular biology By Cooper	Oral Quiz
Mar. 06 - 16, 2017		C.A. IMPROV	EMENT TESTS	•
Mar. 08 - 15, 2017 (Day Order 1 to 6)	MAP Kinase pathway	Lecture & Guest Lecture	Cell and Molecular biology By Cooper	

Mar. 16, 2017	REVISION				
(Day Order 1)					
Mar. 17 - 23, 2017					
(Day Order 2 to 6)	REVISION				
March 24, 2017					
(Day Order 1)					

Course Schedule – November 2016 – April 2017

Department : Botany

Name/s of the Faculty : Dr. Priscilla Jebakumari
Course Title : PLANT PHYSIOLOGY

Course Code : 11BT/MC/PP64

Week & No. of hours	Units & Topics	Teaching	Text &	Method of
77 14 10 2016	TT 1: 4 TT :	Methodology	References	Evaluation
Nov. 14 - 19, 2016	Unit 1:Water	Lecture with		
(Day Order 1 to 6)	relations in plants 1.1 Water potential	Demo on water		
	1.2 Transpiration:	potential in	D. D.	
	Mechanism of	plants –	Plant Physiology	
	stomatal	_	by Devlin Modern plant	
	transpiration, ATP driven	Chardokaff	Physiology by	
	exchange pump,	method	Sinha.R.K Plant	
	Role of ABA in		Physiology by	
	stomatal opening		Taiz and Zeiger	
	& Closure			
Nov. 21 - 28, 2016	1.3 Water	Lecture	Text Book of	Quiz on Micro &
(Day Order 1 to 6)	movement		Plant Physiology	Macro nutrients
	across the root		by Verma.V	(Third
	and xylem			Component)
	Unit 2: Mineral			
	nutrients: 2.1 Micro			
	and Macro nutrients			
Nov. 29 – Dec 5, 2016	2.2 Mechanism of	Lecture & PPT	Text Book of	
(Day Order 1 to 6)	mineral salt		Plant Physiology	
	absorption: Theories		by Verma.V	
	2.3 Transport of		Plant physiology	
	organic solutes 2.3		by Salisbury &	
	Phloem loading and		Ross	
	unloading2			
Dec 6 - 14, 2016	.4 Source of	Lecture	Text Book of	
(Day Order 1 to 6)	Nitrogen,		Plant Physiology	
	Biochemistry of		by Verma.V	
	Nitrogen fixation,		oj vorma. v	

Dec. 15 - 21, 2016 (Day Order 1 to 6) Jan. 03- 09, 2017	Nitrate and Nitrite reduction 2.4 Assimilation of Nitrite and Ammonium ions Unit 3:	Lecture & OHP Lecture	Plant Physiology by Devlin Plant Physiology by Noggle & Fritz	
(Day Order 1 to 6)	Photosynthesis 3.1 Principles of light absorption by plants		by Devlin Modern plant Physiology by Sinha.R.K	
Jan. 10- 17, 2017 (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. 18- 20, 2017	Factors affecting	Lecture cum	Plant Physiology	
(Day Order 1 to 3)	photosynthesis &	demo	by Noggle & Fritz	
	Revision			
Jan.23 - 28, 2017		C.A.	Tests	
Jan.23 - 28, 2017		C.A.	Tests	
Jan.23 - 28, 2017 Jan.30 - Feb 01, 2017 (Day Order 4 to 6)	Unit 4: Respiration 4.1 Respiratory quotient, Fermentation and Anaerobic processes	C.A. 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)
Jan.30 – Feb 01, 2017	4.1 Respiratory quotient, Fermentation and Anaerobic	Lecture cum demonstration on fermentation & Estimation of Respiratory	Plant Physiology by Devlin Modern plant Physiology by	reports for group projects

Feb.20 - 27, 2017 (Day Order 1 to 6)	Electron Transport pathway, Oxidative phosphorylation and Cyanide resistant pathway Unit 5: Growth and Phytohormones 5.1 Growth: Kinetics and growth curve5.2 Auxin, ABA,	-do-	Text Book of Plant Physiology by Verma.V Plant Physiology by Noggle & Fritz	Third Component-Quiz
Feb.28 – Mar 07, 2017	Cytokinin 5.2		Text Book of	
(Day Order 1 to 6)	Gibberellic acid	Lecture &	Plant Physiology	
	and Ethylene	demonstration on	by Verma.V	
		the responses of	Plant Physiology	
		plants to	by Noggle & Fritz	
		hormones		
Mar. 06 - 16, 2017		C.A. IMPROVE	MENT TESTS	
Mar. 08 - 15, 2017	5.3	Lecture Lecture	Text Book of	
(Day Order 1 to 6)		Lecture		
(Day Order 1 to 0)	Photoperiodism, Florigen concept		Plant Physiology	
	riorigen concept		by Verma.V &	
			Plant Physiology	
M 16 2017	7.2. N	T	V.K. Jain	
Mar. 16, 2017	5.3 Vernalization	Lecture	Text Book of	
(Day Order 1)	Revision		Plant Physiology	
			by Verma.V Plant	
			Physiology by	
17 22 22:5			Bidwell	
Mar. 17 - 23, 2017			aron.	
(Day Order 2 to 6)	-	REVI	SION	
March 24, 2017				
(Day Order 1)				

Course Schedule – November 2016 – April 2017

Department : Botany

Name/s of the Faculty : Dr. S. Sathya Bama

Course Title : Fundamentals of Horticulture

Course Code : 11BT/GE/FH44

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
Nov. 14 - 19, 2016	1.1. Introduction:	Lecture	Introduction to	
(Day Order 1 to 6)	Divisions of Horticuture.		Horticulture by N.	
	1.2. History of		Kumar;	Assignment
	Gardening, Some famous Gardens of India		Horicultural	on 5 famous
	Gardens of fildia		science by Janick	gardens of
			Complete	India to be
			Gardening in India	submitted on
			by Gopalswamy	Dec. 6, 2016
			Iyengar	(Third
				Component)
Nov. 21 - 28, 2016	Types of Gardens:	Lecture	Introduction to	Scrap Book
(Day Order 1 to 6)	Indoor, Public and		Horticulture by N.	
	Kitchen garden		Kumar;	
			Horicultural	
			science by Janick	
Nov. 29 – Dec 5, 2016	2.1. Pot cultures:	Lecture through	-do-	
(Day Order 1 to 6)	Selection of pot, potting	demonstration	Horticulture	
	Repotting and potting	and PPT	Principles and	
	mixtures		Practices by	
	2.2. Vegetative		George Acquaah	
	propagation: Layering			
Dec 6 - 14, 2016	2.2. Vegetative	Lecture through	Introduction to	
(Day Order 1 to 6)	propagation: Cutting	PPT &	Horticulture by N.	
	2.2. Vegetative	Demonstration	Kumar;	
	propagation: Grafting		Horicultural	
			science by Janick	

Dec. 15 - 21, 2016	3.1. Gardening	Lecture	Introduction to	
(Day Order 1 to 6)	operation: Planting,		Horticulture by N.	
	Transplanting, Pinching,		Kumar;	
	Disbudding, Defoliation,		Fundamentals of	
	Staking, Pruning,		Horticulture by	
	Staking,		Edmund,Sen et.al.	
Jan. 03- 09, 2017	3.1. Gardening operation:	Lecture		
(Day Order 1 to 6)	watering, Mulching and	Cum	-do-	
	Topiary.	PPT		
	3.2. Ornamental garden			
	and its parts			
Jan. 10- 17, 2017	4.1. Lawn and Lawn	Lecture through	Horicultural	
(Day Order 1 to 6)	making	PPT; Campus	science by Janick	
		walk.	Fundamentals of	
			Horticulture by	
			Edmund,Sen et.al.	
			Introduction to	
			Horticulture by N.	
			Kumar	
Jan. 18- 20, 2017	4.2 Rockery	Lecture through	-do-	
(Day Order 1 to 3)	·	PPT		
Jan.23 - 28, 2017		C.A. Tes	ts	
Jan.30 – Feb 01, 2017	4.2.Rockery	Lecture through	Horicultural	
(Day Order 4 to 6)		PPT	science by Janick	Visit to
			Fundamentals of	Semmozhi
			Horticulture by	Ponga
			Edmund,Sen et.al.	Submission of
			Introduction to	Rockery
			Horticulture by N.	model on
			Kumar	6.2.16 (Third
				Component)
Feb.02 - 09, 2017	4.3. Terrarium	Lecture through	Introduction to	Individual

(Day Order 1 to 6)		PPT and	Horticulture by N.	Practical
		demonstration	Kumar	work-
				Evaluated
Feb.10 - 17, 2017		Lecture through	Introduction to	
(Day Order 1 to 6)	4.4.Bonsai	PPT and	Horticulture by N.	
		demonstration	Kumar	
Feb.20 - 27, 2017				
(Day Order 1 to 6)	5.3.Flower arrangement-	Demonstration	-do-	Practical-
	Fresh and dry			Developing an
				art of
				preparing
				flower
				arrangement
				–III
				component
Feb.28 – Mar 07, 2017	5.2.Cut Flowers	Lecture through	Introduction to	
(Day Order 1 to 6)	.Importance and methods	PPT	Horticulture by N.	
	to prolong vase life		Kumar	
Mar. 06 - 16, 2017		C.A. IMPROVEMI	ENT TESTS	
Mar. 08 - 15, 2017	5.1.Commercial	Lecture		
(Day Order 1 to 6)	floriculture: Economic		-do-	
	flowers-Rose and			
	Jasmine			
Mar. 16, 2017				
(Day Order 1)				
Mar. 17 - 23, 2017				
(Day Order 2 to 6)		REVISIO	ON	
March 24, 2017				
(Day Order 1)				

Course Schedule – November 2016 – April 2017

Department : BOTANY

Name/s of the Faculty : DR. GERADETTE DAVEY

Course Title : GENETICS AND GENETIC ENGINEERING

Course Code : 11BT/MC/GG 64

Shift 1

Week & No. of hours	Units & Topics	Teaching Methodology	Text & Reference	Method of Evaluation
Nov. 14 - 19, 2016	1.1 Mendelian	Lecture Method	Genetics -	Quiz
(Day Order 1 to 6)	Genetics		P.K.Gupta	
Nov. 21 - 28, 2016	1.2 Gene	Problem-solving	Genes IX -	Genetic Problems
(Day Order 1 to 6)	interactions	Method	L.Benjamin	
Nov. 29 – Dec 5, 2016	1.3 Multiple Gene	Lecture Method	The Science of	Third
(Day Order 1 to 6)	Inheritance		Genetics -	Component
			G.W.Burns and	Quiz
			P.J.Botline	
Dec 6 - 14, 2016	1.4 Multiple alleles	Lecture Method	Genetics -	Quiz
(Day Order 1 to 6)			P.K.Gupta	
Dec. 15 - 21, 2016	2.1 Linkage,	Problem-solving	Genetics -	Genetic Problems
(Day Order 1 to 6)	Crossing over and	Method	Winchester	
	Mapping			
Jan. 03- 09, 2017	2.2	Lecture Method	Genetics -	Third
(Day Order 1 to 6)	Extrachromosomal		P.K.Gupta	Component
	Inheritance			Presentation
Jan. 10- 17, 2017	2.3 Sex	Lecture Method	Genetics -	Quiz
(Day Order 1 to 6)	Determination and		Winchester	
	Sex- linked			
	inheritance			
Jan. 18- 20, 2017	5.1 Bioethical	Debate	A Text book of	Quiz
(Day Order 1 to 3)	issues of GM		Biotechnology –	
	plants		R.C. Dubey	

Jan.23 - 28, 2017	C.A. Tests					
Jan.30 – Feb 01, 2017	3.1 Introduction to	Lecture Method	Elements of	Quiz		
(Day Order 4 to 6)	Genetic		Biotechnology -			
	Engineering		P.K. Gupta			
	3.2 Techniques of		Biotechnology-			
	Genetic		An Introduction			
	Engineering		Ignacimuthu S. J.			
Feb.02 - 09, 2017	3.3 Cloning	Lecture Method	A Text book of	Quiz		
(Day Order 1 to 6)	Vectors		Biotechnology			
			-			
Feb.10 - 17, 2017	3.4 Genomic	Lecture Method	Elements of	Quiz		
(Day Order 1 to 6)	Libraries		Biotechnology -			
			P. K. Gupta			
Feb.20 - 27, 2017	3.5 Hybridization	Lecture Method	Biotechnology -	Quiz		
(Day Order 1 to 6)			S. S. Purohit			
Feb.28 – Mar 07, 2017	4.1 Target cells for	Lecture Method	Biotechnology -	Quiz		
(Day Order 1 to 6)	Transformation		Kamal Nayan			
			Joshi			
Mar. 06 - 16, 2017		C.A. IMPROV	EMENT TESTS			
Mar. 08 - 15, 2017	4.2 Gene Transfer	Lecture Method	Elements of	Quiz		
(Day Order 1 to 6)	Technique using		Biotechnology -			
	Agrobacterium		P.K. Gupta			
Mar. 16, 2017		Lecture Method	An Introduction	Quiz		
(Day Order 1)			to Biotechnology			
			– H.S. Srivastava			
Mar. 17 - 23, 2017		<u>I</u>	<u> </u>	1		
(Day Order 2 to 6)		REVI	ISION			
March 24, 2017	1					
(Day Order 1)						