**Course Schedule – June to November 2015** 

**Department** : Botany

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

Course Title : GENERAL BOTANY - I

Course Code : 15BT/AC/GB14

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
June 18 – 24, 2015	Unit:1Taxonomy:	Lecture	College Botany	Oral questioning
(Day Order 1 to 6)	Bentham &		by B.P. Pandey	after each class
	Hooker's			
	classification.			
	Annonaceae			
June 25 – July 01, 2015	Unit:1	Lecture &	College Botany	Oral questioning
(Day Order 1 to 6)	Cucurbitaceae,	Practical	by B.P. Pandey	after each class
	Apocyanaceae,	demonstration		
	Lamiaceae,			
July 02 - 08, 2015	Unit:1	Lecture &	College Botany	Quiz
(Day Order 1 to 6)	Euphorbiaceae &	Practical demonstration	by B.P. Pandey	
	Arecaceae	demonstration		
July 09 - 16, 2015	Unit:2 Primary	Lecture OHP	Anatomy of seed	
(Day Order 1 to 6)	structure of dicot		plants by V.Singh	
	stem & root		& P.C.Pande	
July 17 - 24, 2015	Unit:2 Secondary	Lecture &	Anatomy of seed	
(Day Order 1 to 6)	growth in typical	Practical	plants by V.Singh	
	dicot stem and	demonstration	& P.C.Pande	
	root Leaf:			
	Isobilateral &			
	Dorsiventral			
July 27 - Aug. 03, 2015	Unit:3	Lecture	Text book of	Assignment

(Day Order 1 to 6)	Characteristic		Algae by O.P.
	features of Algae		Sharma
August 04 - 08, 2015		C.A.	. Test I
August 10 - 17, 2015	Unit:3 Type	Lecture	Text book of
(Day Order 1 to 6)	Study of Nostoc		Algae by O.P.
	& Chara		Sharma
August 18 - 24, 2015	Unit:3	Lecture	Text book of
(Day Order 1 to 6)	Sargassum,		Fungi by O.P.
	Characteristic		Sharma
	features of Fungi		
August 25 – Sep 01,	Unit:4 Type	Lecture &	Text book of
2015	study of	Practical	Fungi by O.P.
(Day Order 1 to 6)	Rhizopus,	Demonstration	Sharma
	Aspergillus &		
	Polyporus		
September 02 - 09, 2015	Unit:4 Type	Lecture	Text book of
(Day Order 1 to 6)	study of		Fungi by O.P.
	Polyporus		Sharma
September 10 - 18, 2015	Unit:5 Causal	Lecture	Plant Pathology
(Day Order 1 to 6)	organism,		by B.P. Pandey
	symptoms &		
	control of Citus		
	Canker, Tikka		
	Disease		
September 19 - 23, 2015	Unit:5 Red rot of	Lecture &	Plant Pathology
(Day Order 1 to 4)	Sugarcane	Practical	by B.P. Pandey
		Demonstration	
September 25 - 30, 2015		C.A.	Test II
October 01 & 05, 2015	Revision		
(Day Order 5 and 6)	Practical		
October 06 - 12, 2015	Model Practical		

(Day Order 1 to 6)			
October 13 & 14, 2015	Revision		
(Day Order 1 and 2)			

**Course Schedule – June to November 2015** 

**Department** : Botany

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

Course Title : Algae, Fungi and Lichens

Course Code : 11BT/MC/AF14

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
June 18 – 24,	Unit 1.1	Chalk &Board	Indroduction to	Oral Questioning
2015	Classification of Algae	teaching	Algae by Bold and	
(Day Order 1	(Bold and Wynne,1978)	method	Wynne &Text book	
to 6)	Unit 1.2		of Algae by O.P.	
	Characteristics of Algal		Sharma	
	Divisions			
June 25 – July	Unit 1.2 (continuation)	Lecture	-do-	-do-
01, 2015	Characteristics of Algal		The Algae by	
(Day Order 1	Divisions		Chapman and	
to 6)			Chapman; Botany	
			for Degree students-	
			Algae by Vashista	
			sinha &Singh	
July 02 - 08,	Unit 2	Lecture cum	Text book of Algae	
2015	Detailed study of the thallus	practicals	by O.P. Sharma	
(Day Order 1	organization, reproduction		andAn Introduction	
to 6)	and Life cycle of the		to Algae by Morris	
	following forms:			
	Unit 2.1. Cyanochloranta-			
	Nostoc			
	Unit.2.2			
	Chlorophycophyta-			
	Volvox			

	-do-	-do-	Oral questioning
Chlorophycophy	a-		
Caulerpa and Cl	dophora		
Unit 2.3	-do-	-do-	Assignment on
Charophyta-Cha	a		comparative
Unit 2.4			study
Phaeophycophy	1-		
Sargassum			
. Unit 2.5	-do-	-do-	
Rhodophycophy	1-		
Polysiphonia			
REVISION			
18,	C.	A. Test I	
7, Unit3.1	Chalk and	Board Text book of	Oral questioning
Classification of	teaching m	ethod Fungi by	
Fungi(Alexopou	os and	Sharma O.P	
Mims)		Indroductory	
		Mycology by	
		Alexopoulos	
4, Unit 3.2	Lecture	Text book of	Quiz
Characteristics of	Major	Fungi by	
fungal classes		Sharma O.P	
		Biology of Fun	ngi
		by Ingold	
Unit4:	Lecture cui	n Text book of	Oral questioning
Detailed study o	thallus practicals	Fungi by	
organization, rep	oduction	Sharma O.P	
and life cycle of	he	A TextBook of	:
following forms		Fungi by Dube	
Unit 4.1			
Chytridiomycete	-		
7, Unit3.1 Classification of Fungi(Alexopou Mims)  4, Unit 3.2 Characteristics of fungal classes  Unit4: Detailed study of organization, repand life cycle of following forms Unit 4.1	Chalk and teaching most and  Lecture  Major  Lecture cur  thallus practicals oduction he	Board Text book of Fungi by Sharma O.P Indroductory Mycology by Alexopoulos  Text book of Fungi by Sharma O.P Biology of Fund by Ingold Text book of Fungi by Sharma O.P A TextBook of	Quiz Oral question

	Synchytrium			
	Unit.4.2			
	Plasmodiophoromycetes-			
	Plasmodiophora			
September 02 -	Unit 4.3	-do-	-do-	
09, 2015	Oomycetes-Albugo			
(Day Order 1	Unit. 4.4			
to 6)	Ascomycetes- Peziza			
September 10 -	Unit.4.5	-do-	-do-	Oral questioning
18, 2015	Basidiomycetes- Puccinia			
(Day Order 1				
to 6)				
September 19 -	Unit.4.6	-do-	Testbook of	
23, 2015	Deuteromycetes –		Fungi by O.P.	
(Day Order 1	Cercospora		Sharma	
to 4)	REVISION			
September 25 -		C.A. Test	П	
30, 2015				
October 01 &		-do-	Lichens- A	
05, 2015	Unit 5.1		Praliminary Text	
(Day Order 5	Lichens Types and structure		by Misra and	
and 6)			Agarwal	
October 06 -	Unit:5.1	-do-	-d0-	
12, 2015	Lichens-Reproduction and		Fungi and Allied	
(Day Order 1	importance		Organism by P.D.	
to 6)	REVISION		Sharma	
October 13 &	REVISION			
14, 2015				
(Day Order 1				
and 2)				

**Course Schedule – June to November 2015** 

**Department** : Botany

Name/s of the Faculty : Dr. Geradette Davey & Dr. H. Shakila

Course Title : PRINCIPLES OF BIOTECHNOLOGY

Course Code : 15BT/MC/PB 14

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
June 18 – 24, 2015	Unit:1.1	Lecture	Biotechnology –	Oral questioning
(Day Order 1 to 6)	Introduction &		An Introduction	after each class
	Scope of		by S.J.	
	Biotechnology		Ignacimuthu	
June 25 – July 01, 2015	Unit:1.1Mass	Lecture	Biology of Fungi	Oral questioning
(Day Order 1 to 6)	Cultivation of		by Ingold, C.T.	after each class
	SCP(Spirulina)		Industrial	
	Unit 2.1		Microbiology by	
	Mushrooms:		Presscott & Dunn	
	Morphology-		A Text book of	
	Pleurotus.		Biotechnology by	
			H.D. Kumar	
July 02 - 08, 2015	Unit:1.2	Lecture cum	A Text book of	Assignment
(Day Order 1 to 6)	Neutraceutical &	OHP	Biotechnology by	
	Pharmaceutical		H.D. Kumar	
	Applications.		Industrial	
	Unit2.1		Microbiology by	
	Mushrooms:		Presscott & Dunn	
	Morphology -			
	Agaricus &			
	Volvariella			
July 09 - 16, 2015	Unit:1.3 Algal	Lecture cum	A Text book of	
(Day Order 1 to 6)	Biofertilizers.	OHP	Biotechnology by	
	Uni 2.2		H.D. Kumar	
	Identification of		Industrial	
	edible & poisonous		Microbiology by	

	mushrooms		Presscott & Dunn	
July 17 - 24, 2015	Unit:2.3	Lecture &	Industrial	Quiz
(Day Order 1 to 6)	Mushrooms:	Practical	Microbiology by	
	Cultivation of	demonstration	Presscott & Dunn	
	Pleurotus &		A Text book of	
	Agaricus		Biotechnology by	
	Unit 5.1-Media		H.D. Kumar	
July 27 - Aug. 03, 2015	Unit:2.3	Lecture	Industrial	
(Day Order 1 to 6)	Harvesting and		Microbiology by	
	Uses of		Presscott & Dunn	
	Mushrooms.		A Text book of	
	Unit 5.1		Biotechnology by	
	Equipmentsl		H.D. Kumar	
August 04 - 08, 2015		C.A	. Test I	•
August 10 - 17, 2015	Unit:3.1 Principles	Lecture	A Text book of	Quiz
(Day Order 1 to 6)	of cheese making		Biotechnology by	
	Unit :4.1 Bread		H.D. Kumar	
	production			
August 18 - 24, 2015	Unit:3.2 Types of	Lecture	Industrial	
(Day Order 1 to 6)	cheese		Microbiology by	
	Unit:4.2 Role of		A.H. Patel.	
	yeast in Bread			
	making			
August 25 – Sep 01,	Unit:3.3Yoghurt	Lecture &	Industrial	Assignment
2015	manufacture	Practical	Microbiology by	
(Day Order 1 to 6)	Unit 4.3 Rate of	Demonstration	A.H. Patel.	
	fermentation			
September 02 - 09, 2015	Unit:5.2	Lecture	Industrial	
(Day Order 1 to 6)	Antibiotics		Microbiology by	
	Production.		A.H. Patel.	
September 10 - 18, 2015	Unit:5.3	Lecture	Industrial	Quiz
(Day Order 1 to 6)	Citric acid		Microbiology by	
	prodution		A.H. Patel.	
September 19 - 23, 2015	Unit:5.4 Strain		Industrial	

(Day Order 1 to 4)	selection and		Microbiology by	
	demonstration on		A.H. Patel.	
	citric acid			
	production			
September 25 - 30, 2015		C.A.	Test II	
October 01 & 05, 2015	Revision			
(Day Order 5 and 6)				
October 06 - 12, 2015	Revision			
(Day Order 1 to 6)				
October 13 & 14, 2015	Revision			
(Day Order 1 and 2)				

**Course Schedule – June to November 2015** 

**Department** : Botany

Name/s of the Faculty : Dr Dr.Sathya Bama & Dr. Priscilla Jebakumari

Course Title : Herbal Therapy

Course Code : 11BT/GE/HT32

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
June 18 – 24,	Unit 1.	Lecture	Fundamentals	
2015	Introduction: Ayurveda, Siddha and		of Ayuvedic	
(Day Order 1	Unani		Medicine by	
to 6)			Vaidya	
			Bhagwan Dash	
June 25 – July	Unit 1.2	Lecture	-do-	Oral
01, 2015	Basic Principles of Ayurveda:		Ayurveda the	Questioning
(Day Order 1	Panchamahabhutas, Tridosha concept		Gentle Health	
to 6)	and Malas		System by	
			Hans	
			Ayurveda and	
			panchakarma,	
			the science of	
			Healing and	
			rejuvenation	
			by Sunil	
July 02 - 08,	Unit 1.3	Lecture cum	Ayurveda the	Students are
2015	Preparation of Ayurvedic medicine:	practical	Gentle Health	trained to
(Day Order 1	Svarasa(Juice),	demostration	System by	prepare
to 6)	Churna(powder),Kalka(paste),Kashaya		Hans	herbal

	and Bhasma		The Book of	medicine
			Ayurveda, A	
			guide to	
			personal	
			wellbeing by	
			Judith H.	
			Morrison	
July 09 - 16,	Unit.1.3	Lecture using	A Hand Book	
2015	Preparation of Siddha Medicine:	visual aids	of Common	Quiz
(Day Order 1	Lavanam, Pashanam, Loham, Rasam		Remedies	
to 6)	and Gandhaham		based on	
			siddha	
			systemof	
			Indian	
			medicine by	
			Jaibala and	
			Balakrishnan	
July 17 - 24,	Unit 2.1	Lecture	Eating and	
2015	Herbal Remedies for some common		Healing:	
(Day Order 1	ailments: Diarrhoea, ulcer, cold		traditional	
to 6)	Asthma, Fever, Hypertention,		food as	
			Medicine, by	
			Pieronia and	
			Price	
July 27 - Aug.	Unit 2.1:	Lecture	- Do –	Oral
03, 2015	Jaundice, Chickenpox,		Herbal	questioning
(Day Order 1	DiabetesMenstrual disorder, Bites and		remedies by	
to 6)	Stings		Saha	
August 04 -		C.A. Test I	•	•
08, 2015				

August 10 -	Unit 2.2	Lecture cum	Herbal	Oral
17, 2015	General health tonics and Salads	demonstration	remedies by	Questioning
(Day Order 1	Unit 3.1		Saha	
to 6)	Herbal care for facial skin: herbal pack		A Hand Book	
	for dry, oily and normal skin		of Common	
			Remedies	
			based on	
			siddha	
			systemof	
			Indian	
			medicine by	
			Jaibala and	
			Balakrishnan	
August 18 -	Unit 3.2			
24, 2015	Herbal remedies for Pimples, acnes,	-do -	-do -	Assignment
(Day Order 1	Black heads, corns warts and boils		Handbook on	
to 6)			Medicinal	
			plants, by	
			Duke	
August 25 –	Unit 3.3	Lecture cum		
Sep 01, 2015	Herbal Remedy for dandruff,	demostration	-do-	
(Day Order 1	premature graying and loss of hair			
to 6)				
September 02	Unit2.3	Practical		
- 09, 2015	Preparation of Ayurvedic Medicines	preparation		
(Day Order 1				
to 6)				
September 10	Unit 3.4	lecture	Herbal	
- 18, 2015	Hair washes and herbal hair tonics		remedies by	
(Day Order 1			Saha	

to 6)			
September 19	Unit 3.5	Practical	
- 23, 2015	Demonstration of facial and hair care	demostration	
(Day Order 1	REVISION		
to 4)			
September 25		C.A. Test II	
- 30, 2015			
October 01 &	REVISION		
05, 2015			
(Day Order 5			
and 6)			
October 06 -	TEST		
12, 2015			
(Day Order 1			
to 6)			
October 13 &			
14, 2015			
(Day Order 1			
and 2)			

**Course Schedule – June to November 2015** 

**Department** : Botany

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

Course Title : Phytotheraphy and Ethnobotany

Course Code : 11BT/MC/PE33

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
June 18 – 24,	1.1.Basic principles of	Chalk and Board	Fundamental of	Oral
2015	Aurveda and Siddha:	Teaching method	aurvedic Medicine	Questioning
(Day Order 1	Panchamahabhutas, Tidhosha		by Dash:	
to 6)	Concept		Medicinal plants of	
	2.Vernacular name,		India and Pakistan	
	Binomial, Family, Active		by Dastur;	
	principle, Morphology of the		Handbook of	
	useful part and the		Medicinal herbs by	
	Medicinal uses of		Duke	
	2.1. Roots –Asparagus			
	racemosa; Rouwolfia			
	sepentina			
June 25 – July	1.1.Basic principles of		-do-	
01, 2015	Ayurveda and Siddha:	-do -	Taxonomy of	
(Day Order 1	Malas, Agni, prakruti		Medicinal plants	
to 6)	2.2.Underground stem:		and their uses by	
	Zingiber officinalis,		Shankaranarayanan	
	Curcuma longa and Allium			
	cepa			
July 02 - 08,	1.2. Drug preparation:	Board and Chalk		
2015	Ashwam, Arishtam,	method	-do -	Scrapbook on
(Day Order 1	2.3. Leaves: Ocimum sp.,	Lecture cum		Herbal products
to 6)	Tylophora	practical study on		and Herbaria

	asthmatica,Catharanthus	Morphological		
	roseus and Aloe vera	characters		
July 09 - 16,	1.2. Drug preparation:		-do-	
2015	Thaila Churnam, Leghyam,	-do-	Understanding	-do-
(Day Order 1	Bhasmam		medicinal plants,	
to 6)	2.3. Flowers: Hibiscus rosa-		their chemistry and	
	sinensis & Datura		therapeutic action	
	stramonium		by Hanson	
	2.4. Fruits: Piper longum,			
	Terminalia belerica			
July 17 - 24,	1.2. Drug preparation:			
2015	Infusion Decoction	-do-	-do-	-do-
(Day Order 1	2.4. T. chebula, Emblica			
to 6)	officinalis			
	2.5. Seeds: Strychnos			
	nuxvomica and Trigonella			
	foenum- graceum			
July 27 - Aug.	1.2. Drug preparation:			
03, 2015	Poultice – Salves,			
(Day Order 1	Compresses, Mouthwash	-do-	-do-	-do-
to 6)	2.6. Bark: Cinnamomum			
	zeyalicum			
	REVISION			
August 04 - 08,		C.A. Test	I	
2015				
August 10 - 17,	1.3. Adultration,		Quality STDs of	Oral questioning
2015	Detection	Lecture cum PPT	Indian Medicinal	
(Day Order 1	2.7. Whole plant:		Plants by ICMR	
to 6)	Azadirachta indica,		Medicinal plants-	
	Eclipta alba, Acalypha		Field and	
	indica and Phyllanthus		Laboratory Manual	
	amarus		by Froog	
August 18 - 24,	1.3. Standardization of	Lecture	Quality STDs of	Quiz
2015	drugs		Indian Medicinal	
L				<u> </u>

(Day Order 1	3.1. Ethnobotany;		Plants by ICMR	
to 6)	Definition and Scope			
(0 0)	3.2. Methodologies of	Guest lecture		
	Ethnobotanical research,	Guest lecture		
	,			
	Fieldwork, Literature,			
	Herbaria and Musea.			
August 25 –	1.4. Preparation of	Lecture cum	Medicinal Plants	Oral questioning
Sep 01, 2015	Ayurveda/ Siddha	practical	for health and	
(Day Order 1	Medicines for common	preparation of	wealth by S N Das	
to 6)	ailments.	various medicines	Ayurvedic	
	3.3.Ethnobotany and	and microscopic	treatment for	
	healthcare	analysis	common diseases	
	3.4. Ethnobotanical		by V B Dash	Report
	studies of Toda and Irula	Field Trip to IT		submission
	Tribes	WWS		
September 02 -	1.5. Microscopic and	Lecture cum		Oral questioning
09, 2015	qualitative analysis of	practical	-do-	
(Day Order 1	herbal drug	preparation of		
to 6)		medicines and	Medicinal plants-	
	3.5. Tribal food and	microscopic	Field and	
	medicine	analysis	Laboratory Manual	
		Lecture through	by Froog	
	4.1. Traditional way of	PPT	Pharmacognosy –	
	conserving plant diversity		A.Roseline	
September 10 -	President dr. office			
18, 2015	REVISION			
(Day Order 1	4.2. Ex situ	Lecture through		Oral questioning
to 6)	conservation(including	PPT	Medicinal plants for Health and	oral questioning
10 0)	gene banks and	111	Wealth by Das S.N	
	seedbanks)			
	4.3. In situ conservation			
		-		
September 19 -	4.4. Biodiversity: Uses	Lecture	do	
			-do-	

23, 2015	and conservation			
(Day Order 1				
to 4)				
September 25 -	•	C.A. Test l	Ī	
30, 2015				
October 01 &	5.1. Role of Dhatu in	Lecture cum	Ayurveda and	Oral questioning
05, 2015	physical beauty and daily	demo	beauty by Melanie Sachs	
(Day Order 5	routine to enhance beauty			
and 6)	5.2. Essential oils and Salads			
October 06 -	5.3. Facial and hair care			
12, 2015	using herbal products	-do-	-do-	
(Day Order 1	REVISION			
to 6)				
October 13 &				
14, 2015	REVISION			
(Day Order 1				
and 2)				

**Course Schedule – June to November 2015** 

**Department** : BOTANY

Name of the Faculty : DR. MS. ORDETTA MENDOZA

Course Title : TAXONOMY OF ANGIOSPERMS AND ECONOMIC BOTANY

Course Code : 11BT/MC/TE34

Shift : AIDED

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
June 18 – 24, 2015 (Day Order 1 to 6)	Unit 1.  Importance of Taxonomy.  Classification – Artificial, Natural and Phylogenetic system of classification	PPT presentation and Chalk and Board.	Text: Singh, V., and D.K.Jain, (1989), Taxonomy of Angiosperms, Rastogi Pub. Meerut, India., Ref.: Lawrence, George, H.M., Taxonomy of Vascular Plants, Oxford IBH pub. Co., New Delhi.	Evaluation
June 25 – July 01, 2015 (Day Order 1 to 6)	Detailed study of Bentham and Hooker's classification – Merits and demerits. Taxonomic Keys – use of dichotomous keys	-do-	-do-	
July 02 - 08, 2015 (Day Order 1 to 6)	Unit 2: Plant nomenclature: Binomial and Polynomials. ICBN, Typification, Effective and Valid Publications.	-do-	-do-	

July 09 - 16, 2015	Author Citation,			Botanical
	Choice of names			Gardens in
(Day Order 1 to 6)	and rejection of			India, Kew
	names.			Gardens.
	Unit 3:			Herbaria in
	Herbarium			India -
	Techniques,	-do-	-do-	Assignments
	collection,		-	To be
	pressing, drying			submitted on
	poisoning,			August 21,
	mounting and			2015
	preservation of			
	plant specimens.			
July 17 - 24, 2015	Unit 4:	PPT presentation	<b>Ref.:</b> Lawrence,	
	Detailed study of	and Chalk and	George, H.M.,	
(Day Order 1 to 6)	the diagnostic	Board.	Taxonomy of	
	characteristics and	Bourd.	Vascular Plants,	
	economic		Oxford IBH publishing	
	importance of the		Co., New Delhi.	
	following families:		Rendle, A.B,	
	Dicotyledones -		Classification of	
	Annonoaceae,		Flowering plants, Vol.	
	Nymphaeaceae,		I & II, C. Univ. Press,	
	Rutacaeae		London.	
	Rutacacac		Text Bk.: Singh, V.,	
			and D.K.Jain, (1989),	
			Taxonomy of	
			Angiosperms, Rastogi	
			Pub., India.	
July 27 - Aug. 03, 2015	Fabaceae and its		r uo., maia.	
	sub-families	-do-	-do-	
(Day Order 1 to 6)				
August 04 - 08, 2015		<b>C.A.</b> '	Test I	
August 10 - 17, 2015	Cucurbitaceae	PPT presentation		
(Day Order 1 to 6)	Gamopetalae -	and Chalk and	-do-	
	Rubiaceae,	Board.		
	Apocynaceae			
August 18 - 24, 2015	Asclepiadaceae,	1	-do-	
(Day Order 1 to 6)	Convolvulaceae,	-do-	-40-	
(= 2) 012011100)	Solanaceae			
August 25 -Sep 01, 2015	Acanthaceae,	_	J-	
(Day Order 1 to 6)	Lamiaceae.	-do-	-do-	
24, 01401 1 10 0)				
September 02 - 09, 2015	Monochlamydeae			
	- Amaranthaceae,			
	.1			

(Day Order 1 to 6)	- Euphorbiaceae	-do-	-do-	
September 10 - 18, 2015 (Day Order 1 to 6)	Orchidaceae and Arecaceae,	PPT presentation and Chalk and Board.		
September 19 - 23, 2015 (Day Order 1 to 4)	Poaceae	PPT presentation	- do -	
September 25 - 30, 2015	C.A. Test II			
October 01 & 05, 2015 (Day Order 5 and 6)	Unit 5: Economic Botany Fibre and Fibre yielding plants	Lecture	Text Bk.: Singh, V., and D.K.Jain, (1989), Taxonomy of Angiosperms, Rastogi Publications, India.	
October 06 - 12, 2015 (Day Order 1 to 6)	-Tannins and Dyes - Gums, Resins - Spices and Condiments - Fumitories and Masticatories	Lecture	-do-	QUIZ
October 13 & 14, 2015 (Day Order 1 and 2)	Revision			

**Course Schedule – June to November 2015** 

**Department** : Botany

Name/s of the Faculty :Dr. Nirmala Kanagaraj

Course Title : Cell Biology

Course Code : 11BT/MC/CB54

Week & No. of hours	Units & Topics	Teaching	Text &	Method of
		Methodology	References	Evaluation
June 18 – 24, 2015	Unit-1	Lecture	Cytology By	Oral questioning
(Day Order 1 to 6)	Introduction to cell biology, Cell theory, Relationship of cytology with		P.S.Verma  Molecular Biology By S.L. Wolfe	after each class
	other sciences Cell Wall- Primary and Secondary Cell membrane- Introduction and chemical composition		Cell and molecular biology By Philip Scheeler	
June 25 – July 01, 2015	Unit-1	Lecture	Cytology By	Oral questioning
(Day Order 1 to 6)	Molecular organization of the cell membrane, Models, Biogenesis and cell membrane surface	ОНР	P.S.Verma	after each class
July 02 - 08, 2015	Unit-2	Lecture	Cytology By	Oral questioning
(Day Order 1 to 6)	Endoplasmic Reticulum- Morphology ,chemistry,origin and functions	ОНР	P.S.Verma  Molecular Biology By S.L. Wolfe	after each class
July 09 - 16, 2015	Unit-2	Lecture	Cytology By	Preserntation of
(Day Order 1 to 6)	Golgi Apparatus Mitochondria- Ultrastructure	ОНР	P.S.Verma Molecular	Functions by each group
	2 in astractare		1.101000101	

			Biology By S.L. Wolfe	
July 17 - 24, 2015 (Day Order 1 to 6)	Unit-2 Mitochondria Contd	Lecture OHP	Cytology By P.S.Verma	Oral questioning after each class
	Chloroplast- Ultrastructure		Molecular Biology By S.L. Wolfe	
July 27 - Aug. 03, 2015 (Day Order 1 to 6)	Unit-2 Chloroplast- DNA, Biogenesis		Cytology By P.S.Verma Molecular Biology By S.L. Wolfe	Oral questioning after each class
August 04 - 08, 2015		C.A.	. Test I	
August 10 - 17, 2015 (Day Order 1 to 6)	Unit-2 Microtubules- Occurrence, Structure, functions etc.,	Lecture OHP	Cytology By P.S.Verma Molecular Biology By S.L.	Oral questioning after each class
August 18 - 24, 2015 (Day Order 1 to 6)	Unit-3 Nucleus-Nuclear membrane, Nucleolus, Chromosomes	Lecture PPT	Wolfe  Cytology By P.S.Verma  Molecular Biology By S.L. Wolfe	Oral questioning after each class
August 25 – Sep 01, 2015 (Day Order 1 to 6)	Unit-3 Chromosomes contd.	Lecture PPT	Cytology By P.S.Verma Molecular Biology By S.L. Wolfe	Oral questioning after each class
September 02 - 09, 2015 (Day Order 1 to 6)	Unit-3 DNA Structure	Lecture PPT	Cell and molecular biology By S.L. Wolfe	Oral questioning after each class
September 10 - 18, 2015 (Day Order 1 to 6)	Unit-4 Replication	Lecture OHP		Oral questioning after each class
September 19 - 23, 2015 (Day Order 1 to 4)	Unit-5 Cell cycle- Mitosis			Oral questioning after each class

September 25 - 30, 2015	C.A. Test II			
October 01 & 05, 2015 (Day Order 5 and 6)	Unit-5 Meiosis- Introduction	Lecture	Molecular Biology By Wolfe	Assignment
October 06 - 12, 2015 (Day Order 1 to 6)	Unit-5 Meiosis- Mechanism Developmental biology of plants	Lecture	Molecular Biology By Wolfe	Oral questioning after each class
October 13 & 14, 2015 (Day Order 1 and 2)	Revision			

**Course Schedule – June to November 2015** 

**Department** : Botany

Name/s of the Faculty : Dr. Geradette Davey

Course Title : Ecology and Environmental Biotechnology

Course Code : 11BT/MC/EE54

Shift :1

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
June 18 – 24, 2015		Witemodology	Ecology &	Quiz
(Day Order 1 to 6)	1.1 Ecosystem,-	Power Point	Environment	
	Structure & Function	Presentation	-P. D. Sharma	
June 25 – July 01, 2015				Quiz
(Day Order 1 to 6)	1.2 Ecological	Power Point	Ecology - Peter	
	Pyramids &	Presentation	Stiling	
	Energy Flow			
July 02 - 08, 2015			Ecology - R. S.	Quiz
(Day Order 1 to 6)	2.1 Qualitative	Lecture	Sharma P. S.	
	Analysis of Plant		Chandel	
	Communities			
July 09 - 16, 2015			Essentials of	Quiz
(Day Order 1 to 6)	2.2 Quantitative		Ecology C.	
	Analysis of Plant	Lecture	Townsend, J.	
	Communities		Harper and M.	
			Begon.	
July 17 - 24, 2015			College Botany	
(Day Order 1 to 6)	2.3 Sampling of	Field Study	Practical Vol.1 S.	Problems
	Population		C. Santra, T. P.	
			Chatterjee, A. P.	
			Das	
July 27 - Aug. 03, 2015				
(Day Order 1 to 6)	Revision			

August 04 - 08, 2015		C.A.	Test I	
August 10 - 17, 2015	3.1		Elements of	Quiz
(Day Order 1 to 6)	Biomagnification	Lecture	Biotechnology -	
			P.K. Gupta	
August 18 - 24, 2015	3.2		Fundamentals of	Quiz
(Day Order 1 to 6)	Biotransformation	Lecture	Ecology M. C.	
	- DDT		Dash & S. P.	
			Dash	
August 25 – Sep 01,			Fundamentals of	Quiz
2015	3.3 Testing	Lecture	Ecology M. C.	
(Day Order 1 to 6)	Methods of		Dash & S. P.	
	Toxicity		Dash	
September 02 - 09, 2015			Biotechnology – S	Quiz
(Day Order 1 to 6)	4.1	Guest Lecture	S .Purohit and S.	
	Biodegradation of		K. Mathur	
	Xenobiotics			
September 10 - 18, 2015	4.2		Biotechnology –	Quiz
(Day Order 1 to 6)	Bioremediation	Lecture	S. S. Purohit and	
	4.3 Biosensors		S.K. Mathur	
September 19 - 23, 2015			Biotechnology-M.	Quiz
(Day Order 1 to 4)	4.4 Bioleaching	Power Point	D. Trevan, S.	
		Presentation	Boffey, K. H.	
			Goulding,	
			P. Stanbury	
September 25 - 30, 2015		C.A.	Test II	
October 01 & 05, 2015			Environmental	Quiz
(Day Order 5 and 6)	5.1 Stages of EIA	Lecture	Science R. C. Das	
			and D. K. Behera	
October 06 - 12, 2015	Environmental		Environmental	Quiz
(Day Order 1 to 6)	Quality	Power Point	Biology &	
	Assessment &	Presentation	Toxicology P. D.	
	Monitoring		Sharma	
October 13 & 14, 2015				
	<u> </u>	1		

(Day Order 1 and 2)	Revision of entire		
	syllabus		

**Course Schedule – June to November 2015** 

**Department** : Botany

Name/s of the Faculty : Dr.Priscilla Jebakumari

Course Title : Microbiology

Course Code : 11BT/MC/MB54

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
June 18 – 24, 2015 (Day Order 1 to 6)	Unit1.1 Germ theory of disease, Vaccination, Koch's Postulates, Whittaker's Five Kingdom Theory	Lecture	Microbiology by Prescott, Harley and Klein; Microbiology by stuart and Hogg	Oral questioning
June 25 – July 01, 2015 (Day Order 1 to 6)	Unit 2.1 Classification of Bacteria(Bergey's Manual) Unit2.2 Morphology of Bacteria	Study of bacterial Morphology through Practical Isolation and Characterization of bacteria	-do –  General  Microbiology by  Ajith kumar	
July 02 - 08, 2015 (Day Order 1 to 6)	Unit 2.2 Growth and Control and endospore formation	Lecture, Study of bacterial Morphology through Practical Isolation and Characterization of bacteria	- do-	Evaluation of Practical Observation book
July 09 - 16, 2015 (Day Order 1 to 6)	Unit:2.3 Conjugation, Transformation Transduction	Lecture using PPT	Microbiology by Prescott, Harley and Klein; Microbiology by stuart and Hogg	Quiz

July 17 - 24, 2015 (Day Order 1 to 6)	Transduction	Lecture using PPT	Microbiology by Prescott, Harley and Klein; Microbiology by stuart and Hogg	Quiz
July 27 - Aug. 03, 2015 (Day Order 1 to 6) August 04 -	Unit 3.3 Structure: Virion size, helical capsid, icosahedral capsid and viral envelope REVISION	Lecture  C.A. Test 1	-do- Basic Microbiology by Volk,A. Wesley	
08, 2015				
August 10 - 17, 2015 (Day Order 1 to 6)	Unit3.4 Replication: Bacteriophages(Lytic and Lysogenic cycles), plant virus(TMV) and animal virus(Herpes simplex virus and retrovirus)	Lecture Cum Seminar	Microbiology by Pelczar et al Environmental. Microbiology by Maier, Pepper and Gerba Microbiology by Presscot	
August 18 - 24, 2015 (Day Order 1 to 6)	Unit 3.5 Prions, viroids and virusoids Unit 4.1 Rhizosphere Unit 4.2 Distribution, Taxonomy and Function of bacteria	Lecture	Microbiology by Presscot; Vermicology - The Biology of Earthworms by Ismail Microbial Ecology by Atlas	
August 25 – Sep 01, 2015 (Day Order 1 to 6)	Unit 4.2 Actinomycetes, Fungi, Algae and Protozoa Unit 4.3.Biologeochemical Cycle: Nitrogen, Sulphur, Phosphorous and Carbon	Lecture and Group study	Microbial Ecology by Atlas;Principles	Diagrammatic representation of cycles

			of Microbiology	
			by Parry &	
			Thelma et al.	
September 02	Unit 4.4	Lecture	Microbiology by	
- 09, 2015	Arbuscular Mycorrhiza –		Powar	
(Day Order 1	Application Unit 4.5			
to 6)	Nematophagus fungus			
September 10	Unit 4.6		Microbial	Group Projects
- 18, 2015	Bacterial and Viral insecticide	Lecture	Ecology by Atas;	
(Day Order 1	Unit 5.1		General	
to 6)	Microbiology of domestic		Microbiology by	
	water and Sewage		Powar II	
September 19	Unit 5.2	Lecture cum field		Group Projects
- 23, 2015	Purification of drinking water	visit	-do-	
(Day Order 1	Unit 5.3			
to 4)	Sewage treatment and disposal			
September 25		C.A. Test II		
- 30, 2015				
October 01 &	Unit 5.4	Lecture cum	Environmental	Group Projects
05, 2015	Distribution and sources of air	practical exposure	Microbiology by	
(Day Order 5	borne organisms		Maier, pepper &	
and 6)			Gerba	
October 06 -	Unit 5.5			Group Projects
12, 2015	Enumeration of	- Do-	-do-	
(Day Order 1	microorganisms in air –			
to 6)	sampling techniques			
	REVISION			
October 13 &				
14, 2015	REVISION			
(Day Order 1				
and 2)				

**Course Schedule – June to November 2015** 

**Department** : Botany

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

Course Title : FRUIT PRESERVATION AND NUTRITION

Course Code : 11BT/ME/FN 53

Week & No. of hours	Units & Topics	Teaching Methodology	Text & References	Method of Evaluation
June 18 – 24, 2015	Unit:1	Lecture	Food	Oral questioning
(Day Order 1 to 6)	Principles and		Microbiology:	after each class
	methods of		Frazier, W.C.	
	preservation:			
	High, Low			
	Temp, Drying			
June 25 – July 01, 2015	Unit:1 Canning	Lecture	Food	Oral questioning
(Day Order 1 to 6)	& Bottling,		Microbiology:	after each class
	Radiation,		Frazier, W.C.	
	Chemical			
	Preservation			
July 02 - 08, 2015	Unit:2 Nutrition	Lecture cum OHP	Nutrition & Food	
(Day Order 1 to 6)	& Health: Basic		Processing:	
	5 food groups		Muller, H.G.	
July 09 - 16, 2015	Unit:2 Nutrition	Lecture cum OHP	Nutrition & Food	Quiz
(Day Order 1 to 6)	in fruits and		Processing:	
	vegetables		Muller, H.G.	
July 17 - 24, 2015	Unit:5	Lecture &	Hand book of	
(Day Order 1 to 6)	Preparation of	Practical	food science and	
	Preserves : Jam,	demonstration	Experimental	
	Jelly,		foods:	
	Marmalade,		Swaminathan, M	

	Tutti-fruity			
July 27 - Aug. 03, 2015	Unit:5 Ginger	Practical	Hand book of	
(Day Order 1 to 6)	preserve and	demonstration	food science and	
	candied peel,		Experimental	
	Jelly		foods:	
	preparation,		Swaminathan, M	
August 04 - 08, 2015		C.A	. Test I	,
August 10 - 17, 2015	Unit:3 Canning:	Lecture	Processing and	
(Day Order 1 to 6)	Canning of		Preservation of	
	fruits and		fruits and	
	vegetables		vegetables-Home	
			scale	
August 18 - 24, 2015	Unit:3	Lecture &	Hand book of	
(Day Order 1 to 6)	Preparation of	Practical	food science and	
	lime syrup,	Demonstration	Experimental	
	Grape crush,		foods:	
			Swaminathan, M	
August 25 – Sep 01, 2015	Unit:3 Mango	Lecture &	Hand book of	Assignment
(Day Order 1 to 6)	squash and	Practical	food science and	
	Pineapple	Demonstration	Experimental	
	syrup,		foods:	
	Preparation of		Swaminathan, M	
	mixed vegetable			
	pickle			
September 02 - 09, 2015	Unit:4	Lecture	Food	
(Day Order 1 to 6)	Fermented		Microbiology:	
	Beverages:		Frazier, W.C.	
	Principles of			
	fermentation			
September 10 - 18, 2015	Unit:4	Lecture cum	Food	
(Day Order 1 to 6)	Preparation of	Demonstration	Microbiology:	

	Grape wine,		Frazier, W.C.	
	Cider			
September 19 - 23, 2015	Unit:4 Vinegar,	Practical	Hand book of	
(Day Order 1 to 4)	Preparation of		food science and	
	Fermented		Experimental	
	products - Wine		foods:	
			Swaminathan, M	
September 25 - 30, 2015		C.A.	Test II	
October 01 & 05, 2015	Revision			
(Day Order 5 and 6)				
October 06 - 12, 2015	Revision			
(Day Order 1 to 6)				
October 13 & 14, 2015	Revision			
(Day Order 1 and 2)				