

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI**

**Course Schedule – November 2016 – April 2017**

**Department** : ZOOLOGY  
**Name/s of the Faculty** : Dr. Rita Jayaraj (2hrs) & Dr. S A Vidhya (2hrs)  
**Course Title** : CHORDATA  
**Course Code** : 15ZL/MC/CH24  
**Shift** : I

<b>Week &amp; No. of hours</b>	<b>Units &amp; Topics</b>	<b>Teaching Methodology</b>	<b>Text &amp; References</b>	<b>Method of Evaluation</b>
Nov. 14 - 19, 2016 (Day Order 1 to 6)	Introduction, Discussion of Syllabus  <b>Unit 1</b>  Broad outline of Prochordates  General features  Type study – <i>Amphioxus</i>  <b>Unit 3</b>  Amphibia - Outline classification  Neoteny in Urodela.	Class room Method	Ekambaranatha Ayyar	Questions on topics
Nov. 21 - 28, 2016 (Day Order 1 to 6)	<i>Petromyzon</i> - type study  Affinities of <i>Petromyzon</i>  Parental care in Amphibia	Class room Method   Class room Method	Jordan & Verma Kotpal	Self Study Discussion

<p>Nov. 29 – Dec 5, 2016 (Day Order 1 to 6)</p>	<p>Introduction to Super Class Pisces Type study – <i>Scoliodon</i>  Reptilia : Characteristic features Type : <i>Calotes versicolor</i></p>	<p>PPT</p>	<p>Jordan &amp;Verma Kotpal  Jordan &amp;Verma Kotpal</p>	<p>Discussion Self Study  Discussion</p>
<p>Dec 6 - 14, 2016 (Day Order 1 to 6)</p>	<p>Air bladder and accessory respiratory organs in Fishes  Type : <i>Calotes versicolor</i> – Cont'd</p>	<p>Class room Method</p>	<p>Kotpal Jordan &amp;Verma</p>	<p>Comprehension</p>
<p>Dec. 15 - 21, 2016 (Day Order 1 to 6)</p>	<p><b>Unit 2</b>  Introduction to Super Class Pisces Type study – <i>Scoliodon</i>  <b>Unit 4</b>  Aves : Characteristic features Type : <i>Columba livia</i> External features</p>	<p>Chalk and talk</p>	<p>Ekambaranatha Ayyar  Jordan &amp;Verma Kotpal</p>	<p>Questions  Questions</p>
<p>Jan. 03- 09, 2017 (Day Order 1 to 6)</p>	<p>Accessory Respiratory Organs, Parental care,</p>	<p>Class room Method</p>	<p>Ekambaranatha Ayyar</p>	<p>Comprehension</p>

	electric organs Type : <i>Columba livia</i> -Continued	PPT		
Jan. 10- 17, 2017 (Day Order 1 to 6)	<b>Unit 2</b>  Accessory Respiratory Organs, Parental care, Type : <i>Columba livia</i> -Continued	Class room Method  PPT	Ekambaranatha Ayyar	Comprehension <b>Assignment Submission</b>
Jan. 18- 20, 2017 (Day Order 1 to 3)	<b>Unit 2</b>  Pisces - electric organs  Study of endoskeleton in birds	Chalk and talk	Ekambaranatha Ayyar	Questions
Jan.23 - 28, 2017	<b>C.A. Tests</b>			
Jan.30 – Feb 01, 2017 (Day Order 4 to 6)	Pigeon - type study	Class room Method	Jordan Kotpal	Questions on topics
Feb.02 - 09, 2017 (Day Order 1 to 6)	Skull in reptiles as basis of classification.	PPT	Jordan & Verma Kotpal	Discussion

Feb.10 - 17, 2017 (Day Order 1 to 6)	Snakes of South India Poison apparatus Mammalia : Characteristic features Type : <i>Oryctolagus cuniculus</i> External features	Class room Method	Jordan Kotpal	Questions on topics
Feb.20 - 27, 2017 (Day Order 1 to 6)	Endoskeleton of Mammalia Type : <i>Oryctolagus cuniculus</i>	Chalk and talk	Ekambaranatha Ayyar  Jordan & Verma Kotpal	Questions  <b>Third Component Quiz</b>  Questions
Feb.28 – Mar 07, 2017 (Day Order 1 to 6)	Dentition in Mammals Affinities of Amphioxus & Cyclostomata	Chalk and Talk method	Kotpal RL	Discussion
Mar. 06 - 16, 2017	<b>C.A.IMPROVEMENT TESTS</b>			
Mar. 08 - 15, 2017 (Day Order 1 to 6)	Retrogressive metamorphosis in Urochordata Aquatic Mammals	Powerpoint presentation	Ekambaranatha Ayyar	Recapitulation
Mar. 16, 2017 (Day Order 1)	Revision			
Mar. 17 - 23, 2017 (Day Order 2 to 6)	<b>REVISION</b>			
March 24, 2017 (Day Order 1)				

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI**

**Course Schedule – November 2016 – April 2017**

**Department** : Zoology  
**Name/s of the Faculty** : Dr Juliana Joe (2 hrs) and Dr Preethi Jeyakumar (2 hrs)  
**Course Title** : General Zoology II  
**Course Code** : 15Z/AC/GZ24  
**Shift** : I

<b>Week &amp; No. of hours</b>	<b>Units &amp; Topics</b>	<b>Teaching Methodology</b>	<b>Text &amp; References</b>	<b>Method of Evaluation</b>
Nov. 14 - 19, 2016 (Day Order 1 to 6)	<p><b>Unit 1</b> Discussion of Syllabus Introduction to culture of economically important species <b>Apiculture</b> – Morphology and social organization of <i>Apis indica</i></p> <p><b>Unit 4</b> Introduction to Genetics Human Chromosomes Sex Determination in human</p>	Interaction Lecture	<p>Economic Zoology - Shukla and Upadhyay</p> <p>Concepts of Genetics by Klug</p>	Discussion
Nov. 21 - 28, 2016 (Day Order 1 to 6)	<p><b>Unit 1</b> Equipment and tools needed to set up an apiary. <b>Pisciculture</b> Culture of Indian Major carp-<i>Catla catla</i></p> <p><b>Unit 4</b> Aneuploidy in human</p>	<p>Interaction Lecture</p> <p>PPT</p>	<p>Economic Zoology - Shukla and Upadhyay</p> <p>Concepts of Genetics by Klug</p>	Questioning

Nov. 29 – Dec 5, 2016 (Day Order 1 to 6)	<b>Unit 1</b> Culture of Indian Major carp (contd.) By products of the fishing industry	Lecture	Fish & fisheries – Shanmugam	Discussion
Dec 6 - 14, 2016 (Day Order 1 to 6)	<b>Unit 2</b> <b>Human pathogens</b> Introduction Disease Cycle Diseases: Viral: AIDS Hepatitis  <b>Unit 4</b> Multiple allelic inheritance: Eg. Human blood groups (A, B, AB and O), Rh factor, Inheritance and significance	Lecture PPT   Problem Solving	Microbiology – Sharma Text book of Microbiology – Dubey and Maheshwari  Concepts of Genetics by Klug	Small Test
Dec. 15 - 21, 2016 (Day Order 1 to 6)	<b>Unit 2</b> Bacterial diseases- Tuberculosis Cholera  <b>Unit 4</b> Polygenic Inheritance : Eg. Skin colour in man – Lethal genes: Eg. Tay – Sach's disease	Lecture PPT	Microbiology – Sharma  Concepts of Genetics by Klug	

Jan. 03- 09, 2017 (Day Order 1 to 6)	<p><b>Protozoan diseases -</b> Amoebiasis Life cycle of <i>Entamoeba histolytica</i></p> <p><b>Unit 4</b> Hereditary diseases: Albinism, Huntington disease, Haemophilia, Kearns - Sayre Syndrome &amp; Lactose intolerance</p>	<p>Lecture OHP</p> <p>Group Discussion</p>	<p>Microbiology – Sharma Text book of Microbiology – Dubey and Maheshwari A manual of zoology Vol I – Ekambaranath Iyer</p> <p>Concepts of Genetics by Klug</p>	<b>Third Component Scrap Book Submission</b>
Jan. 10- 17, 2017 (Day Order 1 to 6)	<p>Malaria Life Cycle of <i>Plasmodium</i></p> <p><b>Unit 4</b> Genetic Counselling</p> <p><b>Unit 5</b> Introduction to Animal Behavior</p>	<p>Lecture OHP</p> <p>Guest Lecture</p>	<p>Microbiology – Sharma Text book of Microbiology – Dubey and Maheshwari A manual of zoology Vol I – Ekambaranath Iyer</p> <p>Animal Behaviour by Reena Mathur,</p>	Small Test
Jan. 18- 20, 2017 (Day Order 1 to 3)	<p><b>Unit 2 Helminthic disease:</b> Filariasis Enterobiosis</p> <p><b>Unit 5</b> Shelter seeking and construction</p>	Lecture	<p>Microbiology – Sharma Text book of Microbiology – Dubey and Maheshwari</p> <p>Animal Behaviour by Reena Mathur</p>	Quiz
Jan.23 - 28, 2017	<b>C.A. Tests</b>			

Jan.30 – Feb 01, 2017 (Day Order 4 to 6)	<b>Unit 3</b> <b>Development biology</b> Introduction Gametogenesis- Spermatogenesis  <b>Unit 5</b> Animal associations: Commensalism, Mutualism,	Lecture OHP	Chordate Embryology – Verma & Agarwal  Animal Behaviour by Reena Mathur	Diagram Test
Feb.02 - 09, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Oogenesis Types of vertebrate eggs  <b>Unit 5</b> Parasitism and Predation	Lecture OHP	Chordate Embryology – Verma & Agarwal  Animal Behaviour by Reena Mathur	Questioning
Feb.10 - 17, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Phases of development – Cleavage- Types  <b>Unit 5</b> Behaviour and reproduction: Courtship behaviour	Lecture OHP	Chordate Embryology – Verma & Agarwal  Animal Behaviour by Reena Mathur	Diagram test
Feb.20 - 27, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Blastulation in Frog Gastrulation in Frog  <b>Unit 5</b> Parental care	Lecture OHP	Chordate Embryology – Verma & Agarwal  Animal Behaviour by Reena Mathur	<b>Third Component Quiz</b>



Feb.28 – Mar 07, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Placentation in mammals  <b>Unit 5</b> Learning Behaviour: Forms of learning	Lecture OHP	Chordate Embryology – Verma & Agarwal  Animal Behaviour by Reena Mathur	
Mar. 6 - 16, 2017	<b>C.A. IMPROVEMENT TESTS</b>			
Mar. 08 - 15, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Assisted reproductive technology  <b>Unit 5</b> Abnormal behaviour in domestic and zoo animals	Lecture OHP	Chordate Embryology – Verma & Agarwal  Animal Behaviour by Reena Mathur	Diagram test
Mar. 16, 2017 (Day Order 1)	<b>Unit 3</b> <i>In Vitro</i> fertilization & bioethical issue	Lecture LCD	Chordate Embryology – Verma & Agarwal	Comprehension
Mar. 17 - 23, 2017 (Day Order 2 to 6)	<b>REVISION</b>			
March 24, 2017 (Day Order 1)				

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI**

**Course Schedule – November 2016 – April 2017**

**Department** : Zoology  
**Name/s of the Faculty** : Dr. Kalpana Jayaraman (2 hrs.)  
**Course Title** : Environmental Sciences  
**Course Code** : 15ZL/GC/ES22  
**Shift** : I

<b>Week &amp; No. of hours</b>	<b>Units &amp; Topics</b>	<b>Teaching Methodology</b>	<b>Text &amp; References</b>	<b>Method of Evaluation</b>
Nov. 14 - 19, 2016 (Day Order 1 to 6)	<b>Introduction</b> <b>Unit1</b> Components of the environment- classification of resources- Renewable and non-renewable resources	Power Point & Chalk and Talk	Environmental biology- Singh, H.R	Questioning
Nov. 21 - 28, 2016 (Day Order 1 to 6)	<b>Unit 1</b> Need for Public awareness in conservation Energy flow in ecosystems	Powerpoint Presentation  Small experiment to depict energy flow	Environmental Biology- Sharma	Small quiz
Nov. 29 – Dec 5, 2016 (Day Order 1 to 6)	<b>Unit 1</b> Aquatic and terrestrial- food chain and food web	Lecture	Fundamentals of Ecology- Odum	Questioning
Dec 6 - 14, 2016 (Day Order 1 to 6)	<b>Unit 2</b> Types of pollution-Air-water-solid waste, noise	Lecture and Discussion on various types of pollution Powerpoint Presentation	Textbook on Environmental Studies – Bharucha. E	Objective test
Dec. 15 - 21, 2016	<b>Unit 2</b> Greenhouse effect-	Powerpoint Presentation	Textbook on Environmental Studies –	<b>Presentations on threats to</b>

(Day Order 1 to 6)	depletion of ozone – climate change-		Bharucha. E	<b>environment</b>
Jan. 03- 09, 2017 (Day Order 1 to 6)	<b>Unit 2</b> What is Biodiversity?	Powerpoint Presentation	Textbook on Environmental Studies – Bharucha. E	Discussion
Jan. 10- 17, 2017 (Day Order 1 to 6)	<b>Unit 2</b> Loss of biodiversity- threats	Lecture  Powerpoint Presentation	Textbook on Environmental Studies – Bharucha. E	Case Studies  <b>CA Test</b>
Jan. 18- 20, 2017 (Day Order 1 to 3)	<b>Unit 2</b> Population-urbanization- poverty Agriculture and industry-deforestation	Lecture	Textbook on Environmental Studies – Bharucha. E	Discussion
Jan.23 - 28, 2017	<b>C.A. Tests</b>			
Jan.30 – Feb 01, 2017 (Day Order 4 to 6)	<b>Unit 2</b> Use, Misuse and Abuse of resources Consequences of environmental problems <b>Unit 3</b> Environmental disasters- Bhopal Gas tragedy Chernobyl accident	Powerpoint Presentation	Textbook on Environmental Studies – Bharucha. E  Internet Sources on Environmental Disasters	Discussion
Feb.02 - 09, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Fukushima Nuclear Crisis Gulf War Love canal Episode	Powerpoint Presentation	Internet Sources on Environmental Disasters	Discussion
Feb.10 - 17, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Tsunami-Volcanic eruptions Methods-to measure and check environmental degradation-carbon footprint Carbon credit- ecological methods	Lecture	Textbook on Environmental Studies – Bharucha. E	Discussion and questioning
Feb.20 - 27, 2017 (Day Order 1 to 6)	<b>Unit 3</b> <b>Environmental movements in India</b> Chipko movement	Powerpoint Presentation	Internet sources on environmental movements in India	<b>Third Component Quiz</b>

	Narmada movement			
Feb.28 – Mar 07, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Sethusamudram Project Environmental acts- policy measures with respect to India	Powerpoint Presentation Lecture Discussion	Journals	Recapitulation
Mar. 06 - 16, 2017	<b>C.A. IMPROVEMENT TESTS</b>			
Mar. 08 - 15, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Policy measures with respect to India International environmental agreement –Stockholm Conference	Lecture Discussion	References from International Articles and recent information  Catalogues and relevant Journals	Quiz
Mar. 16, 2017 (Day Order 1)	<b>Unit 3</b> Montreal protocol-RIO Meet Kyoto conference-UN conference on climate change	Lecture	Journals	Questioning
Mar. 17 - 23, 2017 (Day Order 2 to 6)	<b>REVISION</b>			
March 24, 2017 (Day Order 1)				

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI**

**Course Schedule – November 2016 – April 2017**

**Department** : Zoology  
**Name/s of the Faculty** : Dr. Vidhya S.A. (3 hours)  
**Course Title** : Applied Zoology  
**Course Code** : 15ZL/GE/AZ23  
**Shift** : I

<b>Week &amp; No. of hours</b>	<b>Units &amp; Topics</b>	<b>Teaching Methodology</b>	<b>Text &amp; References</b>	<b>Method of Evaluation</b>
Nov. 14 - 19, 2016 (Day Order 1 to 6)	Introduction, detailed outline of the syllabus and course, significance as a skill development course, career options  <b>Unit 1</b> Apiculture: Different species – social organisation – equipment and tools required for setting up an apiary	Observation of the tools and equipment used to set up an apiary  Powerpoint presentation	A Textbook of Applied Zoology – Tomer B.S. and Bhatnagar M.C. Handbook of Economic Zoology – Ahsan J. and Sinha S. P. Economic Zoology – Shukla G. S. and Upadhyay V. B.	Questioning
Nov. 21 - 28, 2016 (Day Order 1 to 6)	<b>Unit 1</b> Bee products: Honey, Beeswax and Bee Venom – Testing of purity of honey	Lecture with realia – honey and beeswax products	Economic Zoology – Shukla G. S. and Upadhyay V. B.	Objective Test
Nov. 29 – Dec 5, 2016 (Day Order 1 to 6)	<b>Unit 1</b> Sericulture: Different types of silk – Life history of <i>Bombyx mori</i>	Lecture  Video	International Sericultural Commission - <a href="http://inserco.org">http://inserco.org</a>	Discussion

	Rearing and Post Cocoon Treatment – Economic Importance		Economic Zoology – Shukla G. S. and Upadhyay V. B.	
Dec 6 - 14, 2016 (Day Order 1 to 6)	<b>Unit 1</b> Lac culture – Processing of lac – Economic importance	Chalk and talk with realia – lac products	A Textbook of Applied Zoology – Tomer B.S. and Bhatnagar M.C.	Questioning
Dec. 15 - 21, 2016 (Day Order 1 to 6)	<b>Unit 2</b> Economic Importance of Crab, Prawn, Lobster, Edible and Pearl Oyster	Realia – preserved specimens	Economic Zoology – Shukla G. S. and Upadhyay V. B.	Diagram test
Jan. 03- 09, 2017 (Day Order 1 to 6)	<b>Unit 2</b> Fish Culture: Management of Fish Farm	Charts, photographs, diagrams showing breeding techniques	<a href="http://www.fao.org/fishery/en">http://www.fao.org/fishery/en</a> Fish and Fisheries of India – Jhingran V. G.	Class discussion
Jan. 10- 17, 2017 (Day Order 1 to 6)	<b>Unit 2</b> Ornamental Fish – Setting up and maintenance of Aquarium/Fish Tank	Observation of a real aquarium	<a href="http://www.fao.org/fishery/en">http://www.fao.org/fishery/en</a> Fish and Fisheries of India – Jhingran V. G.	Class discussion
Jan. 18- 20, 2017 (Day Order 1 to 3)	<b>Unit 3</b> Medicinal Significance of Animal and Animal Products: Sponges, Corals and Shells.	Realia – sponges, corals and shells	Economic Zoology – Shukla G. S. and Upadhyay V. B.	Objective test
Jan.23 - 28, 2017	<b>C.A. Test</b>			
Jan.30 – Feb 01, 2017 (Day Order 4 to 6)	<b>Unit 3</b> Medicinal Significance of Animal and Animal	Powerpoint presentation	Economic Zoology – Shukla G. S. and Upadhyay V. B.	Objective test

	Products: Leech Therapy, Scorpion Venom, Bee Venom, Fish Liver Oil and Snake Venom			
Feb.02 - 09, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Leather – Economic Importance	Chalk and talk	Economic Zoology – Shukla G. S. and Upadhyay V. B.	Discussion on occupational hazards in the leather industry
Feb.10 - 17, 2017 (Day Order 1 to 6)	<b>Unit 4</b> Poultry farming: Different Breeds of Fowls in India – Housing and Rearing – Economic Importance	Lecture with photographs Visit to Poultry/ Dairy/ Fish farm	Economic Zoology – Shukla G. S. and Upadhyay V. B.	Objective test <b>Assignment Submission (Third Component)</b>
Feb.20 - 27, 2017 (Day Order 1 to 6)	<b>Unit 4</b> Dairy Farming: Milk and Milk Products	Chalk and talk	Economic Zoology – Shukla G. S. and Upadhyay V. B.	<b>III component quiz – February 20, 2016</b>
Feb.28 -Mar 07, 2017 (Day Order 1 to 6)	<b>Unit 4</b> Testing of Milk – Biogas (Gobar Gas)	Powerpoint presentation	Economic Zoology – Shukla G. S. and Upadhyay V. B.	Discussion
Mar. 06 - 16, 2017	<b>C.A. IMPROVEMENT TESTS</b>			
Mar. 08 - 15, 2017 (Day Order 1 to 6)	<b>Unit 5</b> Vermitechnology: Vermiculture – Vermicomposting and Vermiwash	Chalk and talk with realia – live and preserved specimens	The Earthworm Book – Sultan Ahmed Ismail	Questioning
Mar. 16, 2017 (Day Order 1)	<b>Unit 5</b> Vermitechnology: Applications in organic farming	Workshop on setting up a vermipit	The Earthworm Book – Sultan Ahmed Ismail	Objective test

Mar. 17 - 23, 2017 (Day Order 2 to 6)	<b>REVISION</b>
March 24, 2017 (Day Order 1)	



**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI**

**Course Schedule – November 2016 – April 2017**

**Department** : Zoology  
**Name/s of the Faculty** : Dr. Kalpana Jayaraman (2 hrs.)  
**Course Title** : Concepts in Animal Welfare  
**Course Code** : 15ZL/GE/AW22  
**Shift** : I

<b>Week &amp; No. of hours</b>	<b>Units &amp; Topics</b>	<b>Teaching Methodology</b>	<b>Text &amp; References</b>	<b>Method of Evaluation</b>
Nov. 14 - 19, 2016 (Day Order 1 to 6)	<b>Unit 1</b> <b>Animal Welfare – Introduction and Behavioral Indicators</b> <b>Syllabus</b> Science, Ethics and Law Mental, Physical and Natural Assessment – Five Freedoms Concept of needs	Lecture	WSPA – World Society for the Protection of Animals	Discussion
Nov. 21 - 28, 2016 (Day Order 1 to 6)	<b>Unit 1</b> Factors that contribute to animal behavior and Welfare Animal Behaviour Animal choices	Lecture	WSPA - Concepts in Animal Welfare	Questioning Discussion
Nov. 29 – Dec 5, 2016 (Day Order 1 to 6)	<b>Unit 1</b> Recognition of normal behavior Possible causes of abnormal behavior of animals in Wild, Zoo, Domestic Animals and Pets Contributions of animals to human society Cultural and historical influences	Lecture Discussion	WSPA - Concepts in Animal Welfare	Discussion
Dec 6 - 14, 2016 (Day Order 1 to 6)	<b>Unit 1</b> Wildlife, Companion animals Research animals Farm or food animals	Lecture Discussion	WSPA - Concepts in Animal Welfare	Questioning
Dec. 15 - 21, 2016 (Day Order 1 to 6)	<b>Unit 1</b> Pet Animals Relationship between animal abuse and human violence	Lecture Discussion	WSPA - Concepts in Animal Welfare	Small Quiz <b>Written Test</b>

Jan. 03- 09, 2017 (Day Order 1 to 6)	<b>Unit 2</b> <b>Ethical concerns</b> <b>Exploitation of animals</b> <b>Wildlife trade</b> Turtle trade Fur trade – mink Bear farms Whaling Leather trade	Powerpoint Presentation	WSPA - Concepts in Animal Welfare	Questioning  <b>Presentation by students (Third Component)</b>
Jan. 10- 17, 2017 (Day Order 1 to 6)	<b>Unit 2</b> <b>Wildlife trade</b> Snake skin trade Exotic pet trade <b>Animals in sport/entertainment</b> Jallikattu, Rekla, Hunting Angling	Lecture Powerpoint Presentation	WSPA - Concepts in Animal Welfare	Questioning  <b>Presentation by students</b>
Jan. 18- 20, 2017 (Day Order 1 to 3)	<b>Unit 2</b> <b>Animals in sport/entertainment</b> Horse races, Circuses, Horse and elephant polo, Cock fight, Insect fight , Spider fight	Lecture Powerpoint Presentation	WSPA - Concepts in Animal Welfare	Questioning
Jan.23 - 28, 2017	<b>C.A. Tests</b>			
Jan.30 – Feb 01, 2017 (Day Order 4 to 6)	<b>Unit 2</b> <b>Animals used for education and research</b> Regulatory tests using animals Drug testing Toxicology testing – LD50, Draize test Endocrine Disruptor Screening	Lecture	The Principle of Humane Experimental Technique – Russel and Burch Alternatives to Animal Testing – ALTWEB	Discussion
Feb.02 - 09, 2017 (Day Order 1 to 6)	<b>Unit 2</b> <b>Animals used for education and research</b> Cosmetic product testing Eye irritation, Skin irritation Skin corrosion, Photo toxicity Photo irritation, Percutaneous absorption Cruelty Free products Animal Care Careers Case studies	Lecture	WSPA - Concepts in Animal Welfare  Alternatives to Animal Testing – ALTWEB	<b>CA TEST</b>

Feb.10 - 17, 2017 (Day Order 1 to 6)	<b>Unit 2</b> <b>Behavioural assessment of animal pain</b> Animal suffering Dairy cows and veal calves Egg-laying hens and chickens bred for meat Transport towards death Slaughter and death	Guest Lecture	Pain in birds – Gentle Animal suffering in the broiler industry – COK report  Assessing pain in animals – Rutherford	Discussion
Feb.20 - 27, 2017 (Day Order 1 to 6)	<b>Unit 3</b> <b>Animal welfare – national and international legislations:</b> Introduction – CITES AATA IATA Animal protection laws – Animal Welfare Act Prevention of Cruelty to Animals Act Wildlife Act The Wildlife (Protection) Amendment Act	Lecture	World Wide Web	Questioning
Feb.28 – Mar 07, 2017 (Day Order 1 to 6)	<b>Unit 3</b> <b>Animal welfare – national and international legislations:</b> Animal Welfare Organizations - Blue Cross, SPCA, WSPA, PETA Animal Welfare Board of India, PFA, The International Fund for Animal Welfare (IFAW), CPCSEA	Guest Lecture	World Wide Web	Questioning
Mar. 06 - 16, 2017	<b>C.A. IMPROVEMENT TESTS</b>			
Mar. 08 - 15, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Humane approach to animals Alternatives to animal testing 3Rs – Reduction, Refinement, Replacement Use of alternative methods Use of alternatives in education	Lecture	World Wide Web  Alternatives to Animal Testing – ALTWEB	Questioning
Mar. 16, 2017 (Day Order 1)	<b>Unit 3</b> First Aid for Animals ABC Drill	Lecture	Internet	Questioning

Mar. 17 - 23, 2017 (Day Order 2 to 6)	<b>REVISION</b>
March 24, 2017 (Day Order 1)	

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI**

**Course Schedule – November 2016 – April 2017**

**Department** : Zoology  
**Name/s of the Faculty** : Dr. Kalpana Jayaraman (2 hrs) and Dr. Preethi Jeyakumar (2 hrs)  
**Course Title** : Microbiology  
**Course Code** : 15ZL/MC/MB44  
**Shift** : I

<b>Week &amp; No. of hours</b>	<b>Units &amp; Topics</b>	<b>Teaching Methodology</b>	<b>Text &amp; References</b>	<b>Method of Evaluation</b>
Nov. 14 - 19, 2016 (Day Order 1 to 6)	Introduction to Microbiology Syllabus  <b>Unit1</b> History and Scope of microbiology Classification of Bacteria	Interaction & Discussion	Microbiology by Prescott  Microbiology by Bauman	Questioning
Nov. 21 - 28, 2016 (Day Order 1 to 6)	<b>Unit1</b> Classification of Viruses Characteristic Features of Prokaryotes and eukaryotes  <b>Unit 5</b> Soil Microbiology : Role of Microorganisms in soil fertility	Lecture and Discussion	Microbiology – An Introduction by Tortora  Microbiology by Prescott  Elements of Microbiology – Pelczar	Small Test
Nov. 29 – Dec 5, 2016 (Day Order 1 to 6)	<b>Unit 1</b> Microscopy -Types Specimen preparation and Staining Techniques - Media Preparation and types of culture media Preservation of culture – pure culture techniques  <b>Unit 5</b> Nitrogen Cycle Sulphur Cycle	Lecture	Microbiology – An Introduction by Tortora Microbiology by Prescott	Discussion
Dec 6 - 14, 2016 (Day Order 1 to 6)	<b>Unit 2</b> Viruses - General Properties Isolation and cultivation T4 Phage – Reproduction	Lecture	Principles of Microbiology Volume II -Powar and Dagainawala	Questioning

	<p><b>Unit 5</b></p> <p>Microbiology of Food: Sources and Types of Microorganisms in Milk Tests for contamination Pasteurization of milk Sterilization Dairy Products</p>			
Dec. 15 - 21, 2016 (Day Order 1 to 6)	<p><b>Unit 2</b></p> <p>Structure and multiplication of Animal Virus.Subviral Particles- Virions and Prions</p> <p><b>Unit 5</b></p> <p>Spoilage of food and its control Fermented Food</p>	Lecture	<p>Microbiology – A Human Perspective by Nester</p> <p>Microbiology – An Introduction by Tortora</p>	Oral Quiz
Jan. 03- 09, 2017 (Day Order 1 to 6)	<p><b>Unit 2</b></p> <p>Archae –Brief Outline Bacteria – Morphology of bacterial cells-Size, Shape and arrangement</p> <p><b>Unit 5</b></p> <p>Food poisoning Probiotics</p>	Lecture	<p>Microbiology – A Human Perspective by Nester</p> <p>Microbiology – An Introduction by Tortora</p>	Questioning
Jan. 10- 17, 2017 (Day Order 1 to 6)	<p><b>Unit 2</b></p> <p>Bacterial cell wall- chemical composition Characteristics of Gram positive and Gram negative bacteria</p> <p><b>Unit 5</b></p> <p>Microbial damage of materials : Natural fabrics, paper and cosmetics</p>	Lecture	Foundations in Microbiology by Talaro	Questioning and Discussion
Jan. 18- 20, 2017 (Day Order 1 to 3)	<p><b>Unit 2</b></p> <p>Molecular structure of Nucleoid. Plasmids –types and Functions</p> <p><b>Unit 4</b></p> <p>The normal microbiota of</p>	Lecture	Elements of Microbiology – Pelczar	Small Test

	the human body: skin, mouth and oropharynx, stomach, small intestine, large intestine, vagina and urethra			
Jan.23 - 28, 2017	<b>C.A. Tests</b>			
Jan.30 – Feb 01, 2017 (Day Order 4 to 6)	<b>Unit 2</b> Bacterial -reproduction and growth of bacterial population  <b>Unit 4</b> Disease cycle of a communicable disease Epidemiology of Infectious Diseases	Lecture PPT	Microbiology – An Introduction by Tortora  Microbiology by Prescott	Questioning <b>Assignment submission(Third Component)</b>
Feb.02 - 09, 2017 (Day Order 1 to 6)	<b>Unit 2</b> Growth curve – Measurement of Microbial Growth.  <b>Unit 4</b> Airborne diseases: Influenza Pneumonia Measles Nosocomial infections Food and Water borne diseases: Typhoid Cholera Polio Fomite borne infections	Powerpoint Presentation          Lecture	Microbiology – An Introduction by Tortora  Microbiology by Prescott	Questioning <b>Exzoobition (Third Component)</b>
Feb.10 - 17, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Physical Conditions for Bacterial growth-temperature ,Oxygen and pH  <b>Unit 4</b> Infection through body fluids: Hepatitis B Ebola Sexually Transmitted Diseases: Gonorrhoea Syphilis	Powerpoint presentation	Microbiology – An Introduction by Tortora  Microbiology by Prescott	Quiz

	Genital Herpes			
Feb.20 - 27, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Nutritional Requirements of bacteria.Nutritional classification of Bacteria  <b>Unit 4</b> Zoonotic Diseases: Swine flu Dengue fever Leptospirosis	Lecture	Microbiology – An Introduction by Tortora  Microbiology by Prescott	<b>Third Component Quiz</b>
Feb.28 – Mar 07, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Recombination in Bacteria Transformation Microbial Control: Importance of Microbial Control Control of Microorganisms by physical and chemical agents	Lecture  Self Study	Microbiology – An Introduction by Tortora  Microbiology by Prescott	Small Test
Mar. 06 - 16, 2017	<b>C.A.IMPROVEMENT TESTS</b>			
Mar. 08 - 15, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Conjugation in Bacteria  Antibiotics and their mechanism of action	Lecture	Principles of Microbiology Volume II -Powar and Daginawala  Elements of Microbiology – Pelczar	Questioning
Mar. 16, 2017 (Day Order 1)	<b>Unit 3</b> Transduction in Bacteria  Antibiotics and their mechanism of action (continued)	Lecture	Principles of Microbiology Volume II -Powar and Daginawala  Elements of Microbiology – Pelczar	
Mar. 17 - 23, 2017 (Day Order 2 to 6)	<b>REVISION</b>			
March 24, 2017 (Day Order 1)	<b>REVISION</b>			



**STELLA MARIS COLLEGE (AUTONOMOUS),CHENNAI**

**Course Schedule – November 2016 – April 2017**

**Department** : Zoology  
**Name/s of the Faculty** : Dr. Vidhya S.A. (3 hrs) and Dr. Preethi Jeyakumar (2 hrs)  
**Course Title** : Introduction to Human Physiology and Immunology  
**Course Code** : 15ZL/AE/HI45  
**Shift** : I

<b>Week &amp; No. of hours</b>	<b>Units &amp; Topics</b>	<b>Teaching Methodology</b>	<b>Text &amp; References</b>	<b>Method of Evaluation</b>
Nov. 14 -19, 2016 (Day Order 1 to 6)	<p>Introduction to Immunology and Physiology Syllabus, objectives and scope of the course</p> <p><b>Unit 1</b> Introduction – Outline of Human Anatomy (Integumentary, Skeletal, Muscles and Digestive systems)</p> <p><b>Unit 4</b> The Immune System- Overview</p>	<p>Video and Discussion</p> <p>Interaction &amp; Discussion</p>	<p>Fundamentals of Human Physiology By Lauralee Sherwood</p> <p>Kuby Immunology by Goldsby, R.A , Thomas J. Kindt&amp; Barbara A. Osborne</p> <p>Essential Immunology by Roitt, I M</p>	Questioning
Nov. 21 - 28, 2016 (Day Order 1 to 6)	<p><b>Unit 1</b> Outline of Human Anatomy (Respiratory, Circulatory Excretory, Nervous, Endocrine and Reproductive Systems – a brief study)</p> <p><b>Unit 4</b> Cells of immune System</p>	<p>Video and Discussion</p> <p>Lecture and Discussion</p>	<p>Fundamentals of Human Physiology By Lauralee Sherwood</p> <p>Kuby Immunology by Goldsby, R.A , Thomas J. Kindt&amp; Barbara A. Osborne</p> <p>Essential Immunology by Roitt, I M</p>	Questioning

<p>Nov. 29 – Dec 5, 2016 (Day Order 1 to 6)</p>	<p><b>Unit 2</b> Respiratory System: Respiratory Pigment – Oxygen Transport – CO<sub>2</sub> Transport</p> <p><b>Unit 4</b> Tissues of immune system</p>	<p>Lecture using diagrams and charts</p> <p>Lecture and LCD</p>	<p>Text Book of Medical Physiology by Guyton A. C.</p> <p>Biology by Solomon, Martin and Berg</p> <p>Fundamentals of Human Physiology By Lauralee Sherwood</p> <p>Kuby Immunology by Goldsby, R.A , Thomas J. Kindt&amp; Barbara A. Osborne</p> <p>Essential Immunology by Roitt, I M</p>	<p>Diagram test</p> <p>Quiz</p>
<p>Dec 6 - 14, 2016 (Day Order 1 to 6)</p>	<p><b>Unit 2</b> Asthma and Chronic Obstructive Pulmonary Disease (COPD)</p> <p><b>Unit 4</b> Primary Lymphoid organs Structure and functions</p>	<p>Lecture using photographs</p> <p>Lecture and Discussion</p>	<p>Text Book of Medical Physiology by Guyton A. C.</p> <p>Kuby Immunology by Goldsby, R.A , Thomas J. Kindt&amp; Barbara A. Osborne</p> <p>Essential Immunology by Roitt, I M</p>	<p>Objective test</p> <p>Comprehension</p>
<p>Dec. 15 - 21, 2016 (Day Order 1 to 6)</p>	<p><b>Unit 2</b> Circulatory System: Heart – Structure and Function, Regulation of Heart Beat and Blood Pressure</p> <p><b>Unit 4</b> Secondary Lymphoid organs Structure and</p>	<p>Powerpoint presentation</p> <p>OHP</p>	<p>Text Book of Medical Physiology by Guyton A. C.</p> <p>Biology by Solomon, Martin and Berg</p>	<p>Objective test</p> <p>Quiz</p>

	functions		<p>Fundamentals of Human Physiology By Lauralee Sherwood</p> <p>Kuby Immunology by Goldsby, R.A , Thomas J. Kindt&amp; Barbara A. Osborne</p> <p>Essential Immunology by Roitt, I M</p>	
Jan. 03- 09, 2017 (Day Order 1 to 6)	<p><b>Unit 2</b> Heart Attack and Hypertension – Electro Cardio Gram and Angiogram</p> <p><b>Unit 4</b> Types of immunity – Natural immunity Innate immunity</p>	Lecture and Discussion	<p>Text Book of Medical Physiology by Guyton A. C.</p> <p>Kuby Immunology by Goldsby, R.A , Thomas J. Kindt&amp; Barbara A. Osborne</p> <p>Essential Immunology by Roitt, I M</p>	Questioning
Jan. 10- 17, 2017 (Day Order 1 to 6)	<p><b>Unit 2</b> Excretory System: Structure of Nephron – Physiology and Regulation of Excretion</p> <p><b>Unit 4</b> Acquired Immunity</p>	Lecture and LCD	<p>Text Book of Medical Physiology by Guyton A. C.</p> <p>Fundamentals of Human Physiology By Lauralee Sherwood</p> <p>Kuby Immunology by Goldsby, R.A , Thomas J. Kindt&amp; Barbara A. Osborne</p> <p>Essential Immunology by Roitt, I M</p>	<p>Diagram test</p> <p>Quiz</p>

Jan. 18- 20, 2017 (Day Order 1 to 3)	<b>Unit 2</b> Physiology and Regulation of Excretion  Humoral immunity		Text Book of Medical Physiology by Guyton A. C. Fundamentals of Human Physiology By Lauralee Sherwood	Comprehension
Jan.23 - 28, 2017	<b>C.A. Tests</b>			
Jan.30 – Feb 01, 2017 (Day Order 4 to 6)	<b>Unit 2</b> Kidney Stones, Kidney Failure and Dialysis  <b>Unit 4</b> Cell mediated immunity	Lecture and LCD	Text Book of Medical Physiology by Guyton A. C.  Immunology by E. Benjamin G.Sunshine and Coico  Essential Immunology by Roitt, I M	Questioning  <b>Assignment Submission(Third Component)</b>
Feb.02 - 09, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Endocrine System: Endocrine Organs in Human Structure, Function and Regulation of Pituitary Gland  <b>Unit 5</b> Immunoglobulins- Structure, Types Characteristic features and functions of Immunoglobulins	Lecture and LCD	Text Book of Medical Physiology by Guyton A. C.  Biology by Solomon, Martin and Berg  Fundamentals of Human Physiology By Lauralee Sherwood  Kuby Immunology by Goldsby, R.A , Thomas J. Kindt& Barbara A. Osborne  Essential Immunology by Roitt, I M	Objective test  Quiz

<p>Feb.10 - 17, 2017 (Day Order 1 to 6)</p>	<p><b>Unit 3</b> Structure, Function and Regulation of Pituitary Gland</p> <p><b>Unit 5</b> Antigen antibody reactions</p>	<p>Lecture and Discussion</p>	<p>Text Book of Medical Physiology by Guyton A. C.</p> <p>Fundamentals of Human Physiology By Lauralee Sherwood</p> <p>Kuby Immunology by Goldsby, R.A , Thomas J. Kindt&amp; Barbara A. Osborne</p> <p>Essential Immunology by Roitt, I M</p>	<p>Questioning</p>
<p>Feb.20 - 27, 2017 (Day Order 1 to 6)</p>	<p><b>Unit 3</b> Structure, Function and Regulation of Thyroid and Parathyroid Glands</p> <p><b>Unit 5</b> Hypersensitivity Type I and II-</p>	<p>Lecture and LCD</p>	<p>Text Book of Medical Physiology by Guyton A. C.</p> <p>Fundamentals of Human Physiology By Lauralee Sherwood</p> <p>Immunology by E. Benjamin G.Sunshine and Coico</p> <p>Essential Immunology by Roitt, I M</p>	<p><b>III Component Test (Quiz)</b></p>
<p>Feb.28 – Mar 07, 2017 (Day Order 1 to 6)</p>	<p><b>Unit 3</b> Structure, Function and Regulation of Pancreas</p> <p><b>Unit 5</b> Hypersensitivity Type III and IV- Allergy &amp; Anaphylactic Shock</p>	<p>Lecture and LCD</p>	<p>Text Book of Medical Physiology by Guyton A. C.</p> <p>Fundamentals of Human Physiology By Lauralee Sherwood</p> <p>Immunology by</p>	<p>Objective test</p> <p>Quiz</p>

			E. Benjamin G.Sunshine and Coico Kuby Immunology by Goldsby, R.A , Thomas J. Kindt& Barbara A. Osborne  Essential Immunology by Roitt, I M	
Mar. 06 - 16, 2017	<b>C.A.IMPROVEMENT TESTS</b>			
Mar. 08 - 15, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Structure, Function and Regulation of Adrenal Glands and Gonads  <b>Unit 5</b> Grave 's Disease, Vaccination Principles and types Lecture and Discussion	Lecture and Discussion	Text Book of Medical Physiology by Guyton A. C.  Fundamentals of Human Physiology By Lauralee Sherwood  Immunology by N. Arumugam and Fatima D  Kuby Immunology by Goldsby, R.A , Thomas J. Kindt& Barbara A. Osborne	Questioning
Mar. 16, 2017 (Day Order 1)	<b>Unit 3</b> Physiology of Ageing  <b>Unit 5</b> Vaccination Schedules	Lecture and Discussion	Text Book of Medical Physiology by Guyton A. C.  Kuby Immunology by Goldsby, R.A , Thomas J. Kindt& Barbara A. Osborne	Questioning
Mar. 17 - 23, 2017 (Day Order 2 to 6)	<b>REVISION</b>			
March 24, 2017 (Day Order 1)				

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI**

**Course Schedule – November 2016 – April 2017**

**Department** : Zoology  
**Name/s of the Faculty** : Dr. Juliana Joe (3 hrs)  
**Course Title** : Genes – Diseases - Society  
**Course Code** : 15ZL/GE/GD23  
**Shift** : I

<b>Week &amp; No. of hours</b>	<b>Units &amp; Topics</b>	<b>Teaching Methodology</b>	<b>Text &amp; References</b>	<b>Method of Evaluation</b>
Nov. 14 - 19, 2016 (Day Order 1 to 6)	<b>Unit 1</b> Introduction - Human gametes and their role in heredity  DNA the genetic material - Human chromosomes	Lecture Interaction Chart and model	Concepts of Genetics by Klug	Questioning
Nov. 21 - 28, 2016 (Day Order 1 to 6)	<b>Unit 1</b> Sex determination in Man Mendelian inheritance: Monohybrid and Di-hybrid cross experiments - Laws of inheritance	Lecture	Concepts of Genetics by Klug  Genetics – A conceptual approach by Pierce	Quiz
Nov. 29 – Dec 5, 2016 (Day Order 1 to 6)	<b>Unit 1</b> Identification of Mendelian traits in Man - Pedigree analysis  <b>Unit 2</b> Incomplete dominance (Hair, straight / curled) Co-dominance (Sickle cell anemia)	Lecture Interaction	Human Heredity – Principles and issues by Cummings  Principles of Genetics by Gardner	Case study
Dec 6 - 14, 2016 (Day Order 1 to 6)	<b>Unit 2</b>  Lethal genes, Types and inheritance.  Multiple allelic inheritance (ABO and Rh Blood groups in man)	Lecture  Demonstration Problems	Human Heredity – Principles and issues by Cummings	

Dec. 15 - 21, 2016 (Day Order 1 to 6)	<b>Unit 2</b> Polygenic Inheritance – Skin colour in human Autosomal Recessive Inheritance- Albinism Autosomal Dominant Inheritance Familial hypercholesterolemia)	Lecture Problems	Concepts of Genetics by Klug  Genetics – A conceptual approach by Pierce	Case study
Jan. 03- 09, 2017 (Day Order 1 to 6)	<b>Unit 3</b> X-linked dominant and recessive inheritance Sex Influenced and sex limited genes and their inheritance.	Lecture	Genetics by Winchester  Principles of Genetics by Gardner	<b>Third Component - Pedigree chart submission</b>
Jan. 10- 17, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Y-linked inheritance (Hypertrichosis) Mitochondrial inheritance (Kearns Sayre syndrome).	Lecture	Human Heredity – Principles and issues by Cummings iGenetics – A molecular approach by Russell	Quiz
Jan. 18- 20, 2017 (Day Order 1 to 3)	<b>Unit 4</b> Disorders with genetic predisposition: Diabetes, Breast Cancer, Autism and Alzheimer’s disease.	Lecture Discussion	Genetics – A conceptual approach by Pierce  Concepts of Genetics by Klug	Quiz
Jan.23 - 28, 2017	<b>C.A. Tests</b>			
Jan.30 – Feb 01, 2017 (Day Order 4 to 6)	<b>Unit 4</b> Chromosomal disorders: Down Syndrome, Turner Syndrome, Klinefelter Syndrome	Lecture Observation of karyotypes	Concepts of Genetics by Klug  Human Heredity – Principles and issues by Cummings	Quiz



Feb.02 - 09, 2017 (Day Order 1 to 6)	<b>Unit 4</b> Metabolic disorders: Phenylketonuria, Huntington disease and Lactose intolerance	PPT		Quiz
Feb.10 - 17, 2017 (Day Order 1 to 6)	Genetic counseling.  Eugenics  Consanguineous marriage and its impact in the society.	Guest lecture  Lecture  Group discussion		Quiz
Feb.20 - 27, 2017 (Day Order 1 to 6)	<b>Unit 5</b> A fundamental understanding of recent advances in the field of Genetics.  Genetic engineering- applications.  Genetically modified organisms – Gene Therapy	Power point presentation  Lecture	Concepts of Genetics by Klug	<b>Third Component quiz</b>
Feb.28 – Mar 07, 2017 (Day Order 1 to 6)	<b>Unit 5</b> Gene Cloning  Predictive Genetic Testing: DNA Finger printing - Case Study	Lecture  Power point presentation	Genetics – A conceptual approach by Pierce  iGenetics – A molecular approach by Russell	Quiz
Mar. 06 - 16, 2017	<b>C.A.IMPROVEMENT TESTS</b>			
Mar. 08 - 15, 2017 (Day Order 1 to 6)	The Human Genome Project: Objectives and applications.	Lecture  Power point presentation	iGenetics – A molecular approach by Russell	Questioning
Mar. 16, 2017 (Day Order 1)	<b>Unit 5</b> Ethical, Legal and Societal Issues (ELSI) related to techniques in Genetics.	Discussion	Concepts of Genetics by Klug  iGenetics – A molecular approach by Russell	
Mar. 17 - 23, 2017 (Day Order 2 to 6)	<b>REVISION</b>			
March 24, 2017 (Day Order 1)	<b>REVISION</b>			

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI**

**Course Schedule – November 2016 – April 2017**

**Department** : Zoology  
**Name/s of the Faculty** : Dr. Kalpana Jayaraman (5 hrs.)  
**Course Title** : Animal Behaviour  
**Course Code** : 11ZL/MC/AB64  
**Shift** : I

<b>Week &amp; No. of hours</b>	<b>Units &amp; Topics</b>	<b>Teaching Methodology</b>	<b>Text &amp; References</b>	<b>Method of Evaluation</b>
Nov. 14 - 19, 2016 (Day Order 1 to 6)	Introduction, detailed outline of the syllabus. Scope and significance of Ethology – A brief history Observation – Identification and Location of individuals- describing – recording- cataloguing- interpreting and presenting data Methods of studying behavior	Lecture Guest Lecture	A Textbook of Animal Behavior – Harjinder Singh  Understanding Biology – Raven and Johnson  Animal Behavior – Reena Mathur	Discussion
Nov. 21 - 28, 2016 (Day Order 1 to 6)	<b>Unit 1</b> <b>Concepts and terms</b> – Motivation - Fixed Action Pattern(FAP) Concept of evolution of behavior Innate Releasing Mechanism Programming and sign stimuli Action Specific Energy	Lecture	Animal Behavior – Reena Mathur  Animal Behavior – An Evolutionary Approach- Alcock	Questioning
Nov. 29 – Dec 5, 2016 (Day Order 1 to 6)	<b>Unit 1</b> Concept of behavioral genetics Locomotion Maintenance and Related Behavior Foraging and Caching Study of animals in the wild Wild life conservation and behavior pattern of different animals Animal behavior studies in Laboratories	Lecture Self Study  Powerpoint Presentations	A textbook of animal behavior – Harjinder Singh  Animal Behavior – Reena Mathur	Questioning

Dec 6 - 14, 2016 (Day Order 1 to 6)	<b>Unit 2</b> Basic and Maintenance Behavior Rhythms Sleep Shelter seeking and construction Finding a place to live: Habitat Selection and Territory	Lecture  Powerpoint Presentations	Biology of animal behavior – Grier  A textbook of animal behavior – Harjinder Singh  Animal Behavior – Reena Mathur	Discussion  Questioning
Dec. 15 - 21, 2016 (Day Order 1 to 6)	<b>Unit 2</b> Homing – Migration <b>Unit 3</b> Sociobiology Communication - methods of study – modes and mechanisms Communications - Chemical - Auditory– tactile – visual – electrical	Lecture  Powerpoint Presentations  Youtube videos	Biology of animal behavior – Grier  A textbook of animal behavior – Harjinder Singh  Animal Behavior – Reena Mathur	Questioning  <b>Submission of Project Outline</b>
Jan. 03- 09, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Social behavior in bees Social organization in primates Behavior and Reproduction: Courtship Breeding Patterns Parental Care	Lecture  Powerpoint Presentations  Youtube videos	Biology of animal behavior – Grier  Animal Behavior – Reena Mathur	Quiz
Jan. 10- 17, 2017 (Day Order 1 to 6)	<b>Unit 4</b> Play : General attributes of play –examples Descriptions of play behavior – theories Interspecific Behaviour- Aggregations Commensalism	Lecture  Powerpoint Presentations  Youtube videos	Biology of animal behavior – Grier  A textbook of animal behavior – Harjinder Singh	Quiz
Jan. 18- 20, 2017 (Day Order 1 to 3)	<b>Unit 4</b> Predation Mutualism	Lecture Powerpoint Presentations	Biology of animal behavior – Grier	Quiz  <b>Project review</b>

Jan.23 - 28, 2017	<b>C.A. Tests</b>			
Jan.30 – Feb 01, 2017 (Day Order 4 to 6)	<b>Unit 4</b> Parasitism <b>Unit 5</b> Internal control of behavior	Lecture  Powerpoint Presentations	Biology of animal behavior – Grier	Quiz
Feb.02 - 09, 2017 (Day Order 1 to 6)	<b>Unit 5</b> Structure of the human brain and functioning – physiological and psychological aspects	Lecture  Powerpoint Presentation	A textbook of animal behavior – Harjinder Singh  Animal Behavior – Reena Mathur	Discussion
Feb.10 - 17, 2017 (Day Order 1 to 6)	<b>Unit 5</b> Structure of the human brain and functioning – physiological and psychological aspects (continued)  Role of nervous system and behavior Hormones and neurochemicals and behavior	Lecture  Powerpoint Presentation	Animal behavior – Psychology Ethology and Evolution – McFarland  Animal Behavior – Reena Mathur	<b>Project Presentations (Third Component)</b>
Feb.20 - 27, 2017 (Day Order 1 to 6)	<b>Unit 5</b> Psychoactive drugs – types- reactions and sources- role in human behavior Animal learning- different forms of learning Evolutionary development of learning in the animal	Lecture  Powerpoint Presentation  Youtube videos	Animal behavior – Psychology – ethology ad evolution – McFarland  Introduction to Animal Behavior - Manning	<b>Third Component Quiz</b>
Feb.28 – Mar 07, 2017 (Day Order 1 to 6)	<b>Unit 5</b> Abnormal behavior Causes of abnormal behavior Abnormal behavior patterns seen in the animals in a zoo, domestic livestock, domestic pets	Lecture  Powerpoint Presentation	Animal behavior – Psychology – ethology ad evolution – McFarland  Introduction to	Discussion

	Preventing, correcting and curing abnormal behavior		Animal Behavior - Manning	
Mar. 06 - 16, 2017	<b>C.A. IMPROVEMENT TESTS</b>			
Mar. 08 - 15, 2017 (Day Order 1 to 6)	<b>Unit 5</b> Abnormal behavior in man Neurotic disease(Anxiety disorder) Phobic disorder Obsessive compulsive disorder Psychotic disorder- schizophrenia	Lecture  Powerpoint Presentation  Youtube videos	Essentials of understanding psychology - Feldman	<b>Project Report Submission</b>
Mar. 16, 2017 (Day Order 1)	<b>Unit 5</b> Psychotic disorder- schizophrenia	Lecture	Essentials of understanding psychology - Feldman	Quiz
Mar. 17 - 23, 2017 (Day Order 2 to 6)	<b>REVISION</b>			
March 24, 2017 (Day Order 1)				

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI**

**Course Schedule – November 2016 – April 2017**

**Department** : Zoology  
**Name/s of the Faculty** : Dr Preethi Jeyakumar (5 hrs)  
**Course Title** : Developmental Biology  
**Course Code** : 11ZL/MC/DB64  
**Shift** : I

<b>Week &amp; No. of hours</b>	<b>Units &amp; Topics</b>	<b>Teaching Methodology</b>	<b>Text &amp; References</b>	<b>Method of Evaluation</b>
Nov. 14 - 19, 2016 (Day Order 1 to 6)	<b>Unit 1</b> Introduction, detailed outline of the syllabus.  Introduction to principles of developmental biology – its definition, scope and history	Lecture and Discussion	Embryology – Balinsky  Developmental Biology – Veerbala Rastogi	Questioning
Nov. 21 - 28, 2016 (Day Order 1 to 6)	<b>Unit 1</b> Theories of development, preformation, epigenesis, pangenesis, recapitulation and biogenetic law Theories of germplasm, mosaic, regulative and gradient Organizers	Lecture and OHP	Developmental Biology – Gilbert  Developmental Biology – Veerbala Rastogi	Questioning
Nov. 29 – Dec 5, 2016 (Day Order 1 to 6)	<b>Unit 1</b> <b>Metamorphosis in insects and amphibians</b> Metamorphosis Hormonal control	Lecture and Discussion	Developmental Biology – Veerbala Rastogi  Chordate Embryology – Verma and Agarwal	Questioning
Dec 6 - 14, 2016 (Day Order 1 to 6)	<b>Unit 1</b> Mechanism of hormone action Tissue reactivity and regulation of metamorphic events Metamorphosis and Hormonal Action Comparison of Amphibian and Insect Metamorphosis	Lecture and Discussion	Developmental Biology – Veerbala Rastogi  Embryology – Balinsky	Discussion with diagrams to study the comparison of metamorphosis

Dec. 15 - 21, 2016 (Day Order 1 to 6)	<b>Unit 1</b>  Insect Cell lineage – positional and presumptive determination of cells and their fate  Progressive Regeneration – Definition, Factors  Examples to demonstrate the regenerating ability of salamander limb, and inductive interactions	Lecture and Discussion	Embryology – Balinsky  Developmental Biology – Veerbala Rastogi  A textbook of embryology – Arumugam	Questioning
Jan. 03- 09, 2017 (Day Order 1 to 6)	<b>Unit 2</b>  Gametogenesis Spermatogenesis– formation  Spermatogenesis - factors, variations, morphology and significance  Sperm –Morphology and Types	Lecture	Developmental Biology – Gilbert  Developmental Biology – Veerbala Rastogi  Chordate Embryology – Verma and Agarwal	Questioning
Jan. 10- 17, 2017 (Day Order 1 to 6)	<b>Unit 2</b>  Fertilization, definition, types, physico-chemical aspects of fertilization Parthenogenesis – Natural and Artificial Placentation in mammals	Lecture and Discussion	Embryology – Balinsky  Developmental Biology – Veerbala Rastogi	Questioning  <b>Submission of Assignment(Third Component)</b>
Jan. 18- 20, 2017 (Day Order 1 to 3)	<b>Unit 2</b>  Totipotency in Animals – Exceptions to Genome constancy  Gene Amplification- <i>Xenopus</i> <i>Drosophila</i>  Differentiation – Types, Control during Transcriptional and Translational Levels	Lecture and Discussion	Embryology – Balinsky  Developmental Biology – Veerbala Rastogi	Questioning
Jan.23 - 28, 2017	<b>C.A. Tests</b>			

Jan.30 – Feb 01, 2017 (Day Order 4 to 6)	<b>Unit 2</b> Stem Cells-Adult stem cells Embryonic stem cells Foetal stem cells Stem cell therapy	Lecture and Discussion	Developmental Biology – Gilbert Embryology – Balinsky	Questioning
Feb.02 - 09, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Cleavage – patterns, types, influence of yolk on cleavage – morula and blastulation  Gastrulation –General morphogenetic movements in Chordate embryos	Lecture and Discussion	Embryology – Balinsky  Developmental Biology – Veerbala Rastogi	Diagram Test
Feb.10 - 17, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Morphogenetic movements and comparative study of gastrulation in <i>Amphioxus</i> , Frog and Chick development Cell lineage –fate maps and their Significance  <b>Unit 4</b>  Ectodermal Derivatives- Development of the eye and ear in frog and chick	Lecture and Discussion	Developmental Biology – Gilbert  Developmental Biology – Veerbala Rastogi	<b>Third Component Quiz</b>
Feb.20 - 27, 2017 (Day Order 1 to 6)	<b>Unit 4</b> Mesodermal derivatives- Development of the blood and Heart in frog and chick Endodermal derivatives- Development of Digestive tract and its Derivatives	Lecture and Discussion	Embryology – Balinsky  Developmental Biology – Veerbala Rastogi	Questioning
Feb.28 – Mar 07, 2017 (Day Order 1 to 6)	<b>Unit 5</b> Role of Organiser in development, Competence, Gradient Theory Experimental Evidence-Nuclear Transplantation –Nucleo cytoplasmic interactions	Lecture and Discussion	Developmental Biology – Veerbala Rastogi Developmental Biology – Gilbert	Questioning



Mar. 06 - 16, 2017	<b>C.A. IMPROVEMENT TESTS</b>			
Mar. 08 - 15, 2017 (Day Order 1 to 6)	<b>Unit 5</b> Test Tube babies-Surrogate motherhood-Freezing human Embryos-grafts and transplants -Cloned Babies	Lecture and Discussion	Developmental Biology – Veerbala Rastogi  Embryology – Balinsky	Quiz
Mar. 16, 2017 (Day Order 1)	<b>Unit 5</b> Ethical issues related to Stem cells Artificial Insemination- <i>In vitro</i> Fertilization –Embryo transplants	Lecture and Discussion	Developmental Biology – Gilbert Developmental Biology – Veerbala Rastogi	Questioning
Mar. 17 - 23, 2017 (Day Order 2 to 6)	<b>REVISION</b>			

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI**

**Course Schedule – November 2016 – April 2017**

**Department** : **ZOOLOGY**  
**Name/s of the Faculty** : **DR. Rita Jayaraj (3 hrs) & Dr. S A Vidhya (2 hrs)**  
**Course Title** : **Environmental Biotechnology**  
**Course Code** : **11ZL/MC/EB 64**  
**Shift** : **I**

<b>Week &amp; No. of hours</b>	<b>Units &amp; Topics</b>	<b>Teaching Methodology</b>	<b>Text &amp; References</b>	<b>Method of Evaluation</b>
Nov. 14 - 19, 2016 (Day Order 1 to 6)	<b>Unit 1</b> Environmental monitoring Introduction- Sampling – Air, Soil and Water  <b>Unit 4</b> Biofertilizers	Power Point & Chalk and Talk   Lecture	Environmental Biotechnology - Alan Scragg  Textbook of Biotechnology- Sathyamurthy	Recapitulation   Quiz
Nov. 21 - 28, 2016 (Day Order 1 to 6)	<b>Unit 1</b> Physical,Chemical and Biological analysis <b>Unit 4</b> Biopesticides	Schematic representation- flow charts  Lecture	Environmental Biotechnology - Alan Scragg  Textbook of Biotechnology- Sathyamurthy	Test   Test
Nov. 29 – Dec 5, 2016 (Day Order 1 to 6)	<b>Unit 1</b> Physical,Chemical and Biological analysis <b>Unit 4</b> Biopolymers	Schematic representation- flow charts  Lecture	Environmental Biotechnology - Alan Scragg  Textbook of Biotechnology- Sathyamurthy	Test   Test
Dec 6 - 14, 2016	<b>Unit 1</b>	Lecture	Environmental Biotechnology	Group Discussion

(Day Order 1 to 6)	Monitoring pollution- Bioindicators <b>Unit 4</b> Bioplastics		- Alan Scragg  Textbook of Biotechnology- Sathyamurthy	
Dec. 15 - 21, 2016 (Day Order 1 to 6)	<b>Unit 1</b> Monitoring pollution- Bioindicators, Biomarkers, Biosensors Toxicity testing using biological material <b>Unit 4</b> Biofuels-biogas, biodiesel	Lecture  Power point and discussion	Environmental Biotechnology - Alan Scragg  Textbook of Biotechnology- Sathyamurthy	Quiz
Jan. 03- 09, 2017 (Day Order 1 to 6)	<b>Unit 3</b>  Waste treatment  <b>Unit 4</b> Biofuels- ethanol, hydrogen	Power point and discussion  Lecture	Environmental Biotechnology - Alan Scragg  Textbook of Biotechnology- Sathyamurthy	Recapitulation  Quiz
Jan. 10- 17, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Functions of the waste treatment system  Sewage treatment <b>Unit 5</b>  <b>Introduction</b> -need for recovery of resources	Power point and discussion	Textbook of Biotechnology- Sathyamurthy	Recapitulation  <b>Submission of Assignment (Third Component)</b>
Jan. 18- 20, 2017 (Day Order 1 to 3)	<b>Unit 3</b> Methods- Removal of nitrogen  Need for recovery of resources			<b>Third component test</b>

Jan.23 - 28, 2017	<b>C.A. Tests</b>			
Jan.30 – Feb 01, 2017 (Day Order 4 to 6)	<b>Unit 3</b> Methods- Removal of phosphorus  <b>Unit 5</b> Oil recovery: Enhanced oil recovery	Power point and discussion   Lecture	Environmental Biotechnology - Alan Scragg   Textbook of Biotechnology- Sathyamurthy	
Feb.02 - 09, 2017 (Day Order 1 to 6)	<b>Unit 2</b> Phytoremediation Sludge treatment and disposal Anaerobic digestion Agricultural and industrial waste <b>Unit 5</b> Microbially enhanced oil recovery	Lecture	Environmental Biotechnology - Alan Scragg   Textbook of Biotechnology- Sathyamurthy  Environmental biotechnology- Rajiv K. Sinha	Discussion
Feb.10 - 17, 2017 (Day Order 1 to 6)	<b>Unit 2</b> Metal Bioremediation Unit 5 Recovery of metals -bioleaching	Flow charts   Lecture	Environmental Biotechnology - Alan Scragg  Textbook of Biotechnology- Sathyamurthy	Discussion  Test
Feb.20 - 27, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Treatment of wastes from industries: Tannery <b>Unit 5</b> Extraction of copper, uranium and gold	Schematic representation   Lecture	Environmental Biotechnology - Alan Scragg   Textbook of Biotechnology- Sathyamurthy	Quiz   Discussion

Feb.28 – Mar 07, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Treatment of wastes from industries: Textile Sugar industries & distillery <b>Unit 2</b> Case Studies : Exxon Valdez Oil Spill	Schematic representation    Lecture	Environmental Biotechnology - Alan Scragg  Textbook of Biotechnology- Sathyamurthy	Discussion    Quiz
Mar. 06 - 16, 2017	<b>C.A. IMPROVEMENT TESTS</b>			
Mar. 08 - 15, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Treatment of waste water-Dairy <b>Unit 2</b> Case Study: Acidic mine drainage in Yellow stone National Park	Lecture	Environmental Biotechnology - Alan Scragg  Textbook of Biotechnology- Sathyamurthy	Discussion
Mar. 16, 2017 (Day Order 1)	<b>Unit 4</b> Biopesticides <b>Unit 5</b> Resource recovery: Introduction Oil recovery: Enhanced Oil recovery	Lecture	Environmental Biotechnology - Alan Scragg	Discussion
Mar. 17 - 23, 2017 (Day Order 2 to 6)	<b>REVISION</b>			
March 24, 2017 (Day Order 1)				

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI**

**Course Schedule – November 2016 – April 2017**

**Department** : Zoology  
**Name/s of the Faculty** : Dr. Juliana Joe (5 hrs)  
**Course Title** : Vertebrate Physiology  
**Course Code** : 11ZL/MC/VP64  
**Shift** : I

<b>Week &amp; No. of hours</b>	<b>Units &amp; Topics</b>	<b>Teaching Methodology</b>	<b>Text &amp; References</b>	<b>Method of Evaluation</b>
Nov. 14 - 19, 2016 (Day Order 1 to 6)	<b>Unit 1</b> Introduction Food requirements - Proteins, Fats, Carbohydrates, Vitamins, trace elements, antioxidants and fibre.  Physiology of Digestion -	Group discussion Lecture   Chart	Animal Physiology by Verma, Agarwal and Tyagi  Nutrition Now by Brown Judith, E.  Human Physiology – From cells to Systems by Sherwood  Text Book of Medical Physiology by Guyton	
Nov. 21 - 28, 2016 (Day Order 1 to 6)	<b>Unit 1</b> Absorption of food  Energy balance – sources of energy input – metabolic rate – neutral, positive and negative energy balance – control of food intake.	Lecture	Sherwood Guyton John Hole	Questioning
Nov. 29 – Dec 5, 2016 (Day Order 1 to 6)	<b>Unit 2</b> Respiratory system in Man Oxygen transport – Steps involved Oxy – Hemoglobin dissociation curve  Carbon dioxide transport	Lecture Interaction Chart	Sherwood Guyton John Hole	Questioning

Dec 6 - 14, 2016 (Day Order 1 to 6)	<b>Unit 2</b> Adaptations to diving and high altitudes – anaerobiosis  Heart Structure and Function -	Lecture  Chart	Sherwood Guyton John Hole	Questioning
Dec. 15 - 21, 2016 (Day Order 1 to 6)	<b>Unit 2</b> Regulation of Heart Beat  Blood vessels – types Blood Pressure - regulation	Lecture	Sherwood Guyton John Hole	Questioning
Jan. 03- 09, 2017 (Day Order 1 to 6)	<b>Unit 2</b> ECG – principles and applications Lymph – Composition and Functions	<b>PPT</b>	Sherwood	Small test
Jan. 10- 17, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Thermoregulatory mechanisms in poikilotherms and homeotherms  Osmoregulators and Osmoconformers.	Lecture PPT	Animal Physiology by Eckert  Biology by Solomon	Questioning
Jan. 18- 20, 2017 (Day Order 1 to 3)	<b>Unit 3</b> Osmoregulatory mechanism in Vertebrates  Formation of nitrogenous wastes - ammonotelism - uricotelism – ureotelism	Lecture PPT	Solomon  Eckert Sherwood	Small Test
Jan.23 - 28, 2017	<b>C.A. Test</b>			
Jan.30 – Feb 01, 2017 (Day Order 4 to 6)	Excretory System – Structure of Kidney and Nephron Physiology and regulation of excretion in human.		Solomon  John Hole Sherwood	
Feb.02 - 09, 2017 (Day Order 1 to 6)	<b>Unit 4</b> Types of muscles - cardiac – unstriated - striated - Ultrastructure of the striated muscle - properties of muscles. Muscle contraction - theories - chemical changes.	Lecture	Solomon  John Hole Sherwood	<b>Third component- Exhibition</b>

Feb.10 - 17, 2017 (Day Order 1 to 6)	<b>Unit 4</b> Neurons - nerve fibres - Nerve impulse - conduction – properties Reflex action, cranial and spinal - Autonomic nervous system – Neurotransmitters - E.E.G. principle	Lecture	John Hole Sherwood	
Feb.20 - 27, 2017 (Day Order 1 to 6)	<b>Unit 4</b> Structure and Physiology of Photo, Phono and Chemoreceptors of a mammal - Pain and Thermo receptors of Vertebrates  Colour changes  Bioluminescence  Electric Organs of vertebrates	Self-study  Lecture  Discussion	Eckert  Solomon  Sherwood	
Feb.28 – Mar 07, 2017 (Day Order 1 to 6)	<b>Unit 5</b> Endocrine glands of a mammal – Pituitary – Structure, functions and regulation  Structure, functions and regulation of Thyroid and Parathyroid glands  Pancreas	Lecture Chart	Sherwood John Hole	<b>Third component Quiz</b>
Mar. 06 - 16, 2017	<b>C.A. IMPROVEMENT TESTS</b>			
Mar. 08 - 15, 2017 (Day Order 1 to 6)	<b>Unit 5</b> Structure, functions and regulation of and Adrenal gland  Gonads – Endocrine functions –  Physiology of Male & Female reproductive systems  Menstrual cycle  Pregnancy	Lecture	Sherwood John Hole	Questioning



Mar. 16, 2017 (Day Order 1)	<b>Unit 5</b> Physiology of ageing – causes and theories.	PPT	Solomon	Questioning
Mar. 17 - 23, 2017 (Day Order 2 to 6)	<b>REVISION</b>			
March 24, 2017 (Day Order 1)				

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI**

**Course Schedule – November 2016 – April 2017**

**Department : ZOOLOGY**  
**Name/s of the Faculty : Dr. Rita Jayaraj (4Hrs)**  
**Course Title : NUTRITION AND DIET THERAPY**  
**Course Code : 11ZL/GE/ND44**  
**Shift : I**

<b>Week &amp; No. of hours</b>	<b>Units &amp; Topics</b>	<b>Teaching Methodology</b>	<b>Text &amp; References</b>	<b>Method of Evaluation</b>
Nov. 14 - 19, 2016 (Day Order 1 to 6)	Introduction to the syllabus <b>Unit 1</b> Sources and functions of Carbohydrates, Proteins and Lipids	Interaction & Discussion  Chalk and Talk  Power Point Presentation	Human Nutrition -Srilakshmi B  Nutrition Science- Srilakshmi B	Discussion
Nov. 21 - 28, 2016 (Day Order 1 to 6)	Unit 1 Malnutrition- PEM- Iodine deficiency- Vitamin A deficiency- Iron deficiency- Other micronutrients Nutigenomics	Lecture  Power Point presentation	Nutrition Science- Srilakshmi B  Nutrition- Paul Insel et al	Questioning
Nov. 29 – Dec 5, 2016 (Day Order 1 to 6)	<b>Unit 2</b> Food Contamination (Sources, causes and consequences ) –Agricultural produce (grains, Vegetables, Fruits) Animal produce (Milk, meat and sea food )	Lecture  Power point presentation	Food Safety- Mudambi & Gopal	Questioning

Dec 6 - 14, 2016 (Day Order 1 to 6)	<b>Unit 2</b>  Importance of Environmental and personal Hygiene of food handler- Safety in food storage –handling and preparation  Methods of food preservation	Power point presentation	Food Safety - Mudambi&Gopal	Comprehension
Dec. 15 - 21, 2016 (Day Order 1 to 6)	<b>Unit 3</b>  Eating Disorder Continuum  Anorexia nervosa – Bulimia nervosa- Binge eating disorder- Night eating syndrome  Overweight and Obesity  Hypertension- Osteoporosis	Power point presentation	Nutrition- Paul Insel et al  Perspectives in Nutrition- Gordon M.Wardlaw and Jeffrey S. Hampl	Comprehension
Jan. 03- 09, 2017 (Day Order 1 to 6)	<b>Unit 3</b>  Nutritional concerns of childhood  Nutritional – related concerns Of Mature Adults	Lecture	Perspectives in Nutrition- Gordon M.Wardlaw and Jeffrey S. Hampl	Questioning
Jan. 10- 17, 2017 (Day Order 1 to 6)	<b>Unit 3</b>  Nutritional concerns of Adolescents	Lecture	Perspectives in Nutrition- Gordon M.Wardlaw and Jeffrey S. Hampl	Questioning

Jan. 18- 20, 2017 (Day Order 1 to 3)	<b>Unit 4</b> Diet therapy : purpose and principles-Food acceptance in illness Therapeutic diets- Tube feeding- Parenteral feeding	Lecture	Perspectives in Nutrition- Gordon M.Wardlaw and Jeffrey S. Hampl	Oral quiz
Jan.23 - 28, 2017	<b>C.A. Test</b>			
Jan.30 – Feb 01, 2017 (Day Order 4 to 6)	<b>Unit 3</b> Diet in Diabetes mellitus  Gastrointestinal disorders-Ulcer, Diarrhoea and constipation	Lecture	Perspectives in Nutrition- Gordon M.Wardlaw and Jeffrey S. Hampl	Comprehension
Feb.02 - 09, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Cardiovascular diseases	Lecture  Power Point presentation	Nutrition- Paul Insel et al	<b>Component Quiz</b>
Feb.10 - 17, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Diet therapy for addictive behaviours in anorexia nervosa	Lecture	Perspectives in Nutrition-Gordon M.Wardlaw and Jeffrey S. Hampl	Comprehension
Feb.20 - 27, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Food allergies - Classification	Lecture  Power Point Presentation	Nutrition- Paul Insel et al Perspectives in Nutrition- Gordon M.Wardlaw and Jeffrey S. Hampl	Questioning
Feb.28 – Mar 07, 2017 (Day Order 1 to 6)	<b>Unit 3</b> Dietary management	Lecture  Self study  Power point presentation	Perspectives in Nutrition- Gordon M.Wardlaw and Jeffrey S. Hampl	Questioning

Mar. 06 - 16, 2017	<b>C.A. IMPROVEMENT TESTS</b>			
Mar. 08 - 15, 2017 (Day Order 1 to 6)	<b>Unit 5</b> Sensory evaluation and quality control- Factors affecting food acceptance – sensory	Lecture	Sensory evaluation - Rose Amerine	Recapitulation
Mar. 16, 2017 (Day Order 1)	<b>Unit 5</b> Quality control and its importance.	Guest Lecture	Fundamentals of food, nutrition and diet therapy - Mudabi, S.R. and M. V. Rajagopal	Questioning
Mar. 17 - 23, 2017 (Day Order 2 to 6)	<b>REVISION</b>			
March 24, 2017 (Day Order 1)	<b>REVISION</b>			