STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI

COURSE PLAN (June - November 2026)

Department : **Zoology**

Name/s of the Faculty : **Dr. Parimalam M**

Course Title : **Invertebrata**

Course Code : **25ZL/MC/IV15**

Shift : **I**

COURSE OUTCOMES (COs)

COs	Description	CL
CO1	Students will be able to recall the classification and characteristic features of major invertebrate phyla, including examples of representative species	K1
CO2	Students will be able to explain the structural organisation, functional adaptations, and ecological roles of different invertebrate groups	K2
CO3	Students will be able to demonstrate knowledge of the medical and economic significance of various invertebrates, particularly parasitic and commercially valuable species	K3
CO4	Students will be able to compare and contrast evolutionary trends among invertebrates, recognising their morphological adaptations and phylogenetic significance	K4
CO5	Students will be able to critically assess the conservation concerns related to invertebrates, formulating strategies for their sustainable management	K5

Week	**Unit No.**	**Content**	**Cognitive Level**	**Teaching Hours**	**COs**	**Teaching Learning Methodology**	**Assessment Methods**
Jun 22, 2026 (Day Order 6)	1	Overview of Syllabus 1.1 Introduction and Classification of Animal Kingdom	K1 – K4	2	CO1-CO4	Powerpoint Presentation	Recapitulation
Jun 23 – July 1, 2026 (Day Order 1- 6)	1	1.2 Phylum Protozoa: Characteristic Features - Type: *Paramecium caudatum*	K1- K5	5	CO1- CO5	Powerpoint presentation Draw and label diagrams covered under the type study *Paramecium caudatum*	Group Quiz on the type study *Paramecium caudatum*
July 2 – July 8, 2026 (Day Order 1- 6)	1	1.3 Locomotion in Protozoa 1.4 Parasitic Protozoans: *Entamoeba histolytica and Plasmodium* sp.	K1-K5	5	CO1-CO5	Audiovisual presentation Observe specimen slides of *Entamoeba histolytica* and *Plasmodium sp.*	Recapitulation Case study analysis of parasitic protozoans

July 9 – 16, 2026 (Day Order 1- 6)	2	2.1 Phylum Porifera: Characteristic Features Type: *Sycon*	K1-K5	5	CO1-CO5	Powerpoint presentation	Quiz on key terminologies of type study *Sycon*
July 17 – 24, 2026 (Day Order 1- 6)	2	2.2 Canal System in Sponges - Economic Importance of Porifera	K1-K5	2	CO1-CO5	Powerpoint presentation Draw and label different types of canal system in sponges	Discussion on economically significant poriferans
		2.3 Phylum Coelenterata: Characteristic Features	K1 -K5	1	CO1-CO5	Lecture	Recapitulation
		2.4 Polymorphism in Coelenterates - Corals and Coral Reefs – Environmental Impact – Conservation	K1-K5	2	CO1-CO5	Powerpoint Presentation	Case study analysis on a Coral reef affected ecosystem due to environmental stress.

July 25 – 28, 2026 (Day Order 1- 3)	2	2.4 Affinities of Ctenophora	K1-K5	1	CO1-CO5	Lecture	Recapitulation
July 29 – Aug 3, 2026	**C.A. Test - I**						
Aug 4 - 6, 2026 (Day Order 4 - 6)	3	3.1 Phylum Platyhelminthes: Characteristic Features – Type : *Taenia solium*	K1- K5	4	CO1-CO5	Powerpoint presentation	**Component 1-Assignment** **(Student will be assigned any one topic from the syllabus** **(20 marks)**
Aug 7 – 14, 2026 (Day Order 1- 6)	3	3.2 Helminth Parasites in Relation to Human Welfare: *Ascaris lumbricoides*, *Ancylostoma duodenale*, *Wuchereria bancrofti* and *Enterobius vermicularis*	K1-K5	5	CO1-CO5	Powerpoint presentation Construction of concept map on helminth parasites	Case study analysis/ Group discussion on helminth parasites
Aug 17 - 24, 2026 (Day Order 1- 6)	3	3.3 Phylum Annelida: Characteristics Features	K1-K5	5	CO1-CO5	Lecture	Discussion on economic importance of

		– Type study: *Lampito mauritii*					*Lampito mauritii* in the soil ecosystem.
Aug 25 – Sep 2, 2026 (Day Order 1- 6)	3 4	3.4 Leech therapy: Medicinal Significance - Diversity of Annelids 4.1 Phylum Arthropoda: Characteristic Features - Type : *Fenneropenaeus indicus* (*Penaeus indicus*)	K1-K5 K1-K5	2 3	CO1-CO5 CO1-CO5	Powerpoint presentation Observation of museum specimens	Recapitulation **Component II (Students will perform a role play to demonstrate the structure, function and ecological role of different invertebrates) Roleplay topics will be from all units, student will chose one (20 marks)**

Sep 3 – 11, 2026 (Day Order 1- 6)	4 4	4.1 Type: *Fenneropenaeus indicus* (*Penaeus indicus*) 4.2 Structure and Phylogenetic Significance of Peripatus	K1-K5 K1-K5	3 2	CO1-CO5 CO1-CO5	Powerpoint Demonstration of prawn appendages Powerpoint presentation	Quiz on important terminologies Summarise key points based on the presentation.
Sep 15-17, 2026 (Day Order 1 - 3)	4	4.3 Mouthparts and their Modification in Insects	K1-K5	1	CO1-CO5	Lecture Draw and labels the mouthparts of mosquito, housefly, honey bee, butterfly and grasshopper.	Observation of insect on campus with special reference to type of mouthparts, food source and habitat
Sep 18 –23, 2026	**C.A. Test - II**						

Sep 24 - 28, 2026 (Day 4 – 6)	4 5	4.4 Social Life in Insects: General Characteristics – Honey bee 5.1 Phylum Mollusca: Characteristic Features	K1-K5 K1-K5	3 1	CO1-CO5 CO1-CO5	Audiovisual Presentation Lecture	Group discussion on threats to honey bees Recapitulation
Sep 29 – Oct 7, 2026 (Day Order 1 - 6)	5 5	5.2 Economic Importance of Molluscs 5.3 Phylum Echinodermata: Characteristic Features Type : *Asterias* sp.	K1-K5 K1-K5	1 2	CO1-CO5 CO1-CO5	Powerpoint presentation Construct dichotomous key for major classes of Echinoderm	Discussion based on the presentation Summarise important terminologies under type *Asterias*
Oct 8 - 14, 2026 (Day Order 1 - 6)	5	5.3 Type : *Asterias* sp. 5.4 Larval Forms of Echinoderms and their Significance	K1-K5 K1-K5	3 2	CO1-CO5 CO1-CO5	Lecture Create infographics of the development stages of different larva echinoderms	**Quiz** **Component III** **Unit 5** **(10 marks)**

Oct 15 - 21, 2026 (Day Order 1- 4)	**REVISION**

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI

COURSE PLAN (June - November 2026)

Department : **Zoology**

Name/s of the Faculty : **Dr. Parimalam M and Dr. Janani N**

Course Title : **Invertebrata Practical**

Course Code : **25ZL/MC/P114**

Shift : **1**

COURSE OUTCOMES (COs)

COs	Description	CL
CO1	recall and record characteristic features, habitats, and ecological roles of common invertebrates	K1
CO2	explain the distinguishing features of representative invertebrate specimens and insect vectors across phyla based on morphological identification	K2
CO3	prepare and interpret permanent mounts of anatomical features to understand the structural adaptations in selected invertebrates	K3
CO4	analyze the caste system in honeybees and interpret techniques in apiculture and soil microarthropod extraction in terms of their biological relevance and practical application	K4
CO5	evaluate the anatomical and physiological adaptations of invertebrates through dissections and assess the ecological and economic relevance of vermitechnology	K5

Week	**Unit No.**	**Content**	**Cognitive Level**	**Teaching Hours**	**COs**	**Teaching Learning Methodology**	**Assessment Methods**
Jun 22, 2026 (Day Order 6)	No Class						
Jun 23 – July 1, 2026 (Day Order 1- 6)	1 4	Overview of Syllabus General instructions Introduction to Microscopy Spotters: Protozoa *Paramecium* sp., *Vorticella* sp., *Entamoeba histolytica, Euglena* sp.	K1-K2	3 1	CO1-CO2	Explanation and demonstration of microscope Powerpoint presentation Observation and identification of organisms (prepared slides/ museum specimens/photographic plates)	Students are asked to focus a prepared slide under the dissection and/or compound microscope Evaluation of observation notebook
July 2 – July 8, 2026 (Day Order 1- 6)	3	Mount: Body setae of Earthworm	K1-K3	2	CO1-CO3	Explanation and Demonstration	Evaluation of mount

	4 4	Spotters: Porifera *Euplectella,* sp., *Hyalonema* sp., *Hydra* sp.*,* Gemmule of Sponge Spotters: Coelenterata – *Aurelia* sp.*, Meandrina* sp.*, Tubipora* sp.*,* Medusa of *Obelia*	K1-K2 K1-K2	1 1	CO1-CO2 CO1-CO2	Powerpoint Presentation Observation and identification of organisms (prepared slides/ museum specimens/photographic plates) Powerpoint presentation Observation and identification of organisms (prepared slides/ museum specimens/photographic plates)	Evaluation of observation notebook Evaluation of observation notebook

July 9 – 16, 2026 (Day Order 1- 6)	3 4	Mounts: Mouth parts of mosquito and housefly Spotters: Platyhelminthes - *Fasciola hepatica*, *Taenia solium*, Scolex of *Taenia*, *Planaria* sp.	K1-K3 K1-K2	3 1	CO1-CO3 CO1-CO2	Explanation and demonstration Observation of slides Powerpoint presentation Observation and identification of organisms (prepared slides/ museum specimens/photographic plates)	Evaluation of mount Evaluation of observation notebook
July 17 – 24, 2026 (Day Order 1- 6)	1 3	Dissections: *Periplaneta americana* / *Fenneropenaeus indicus*: Digestive System and/or Nervous System Apiculture: Structure and Identification of Different Castes of *Apis indica*	K1-K5 K1-K4	3 1	CO1-CO5 CO1-CO4	Explanation and demonstration Powerpoint Presentation	Evaluation of dissection

		ii. Equipment Needed for Apiculture				Observation and identification of organisms (prepared slides/ museum specimens/photographic plates)	Evaluation of observation notebook
July 25 – 28, 2026 (Day Order 1- 3)	1 4	Dissection – Repeat: *Periplaneta americana* / *Fenneropenaeus indicus*: Digestive System and/or Nervous System Insect vectors: *Aedes* sp., *Culex* sp., *Pediculus* sp., *Xenopsylla* sp. and *Sarcoptes scabiei*	K1-K5 K1-K2	2 1	CO1-CO5 CO1-CO2	Explanation Powerpoint presentation Observation and identification of organisms (prepared slides/ museum specimens/photographic plates)	Evaluation of dissection Evaluation of observation notebook
July 29 – Aug 3, 2026	**C.A. Test - I**						
Aug 4 - 6, 2026 (Day Order 4 - 6)	4	Spotters: Aschelminthes - *Ascaris lumbricoides,*	K1-K2	1	CO1-CO2	Powerpoint presentation	Evaluation of observation notebook

		Ancylostoma duodenale, Enterobius vermicularis, Trichuris trichiura				Observation and identification of organisms (prepared slides/ museum specimens/photographic plates)	
Aug 7 – 14, 2026 (Day Order 1- 6)	**Practical C.A I – Evaluation of Observation/ Record notebook**						
	4	Spotters: Annelida - *Nereis* sp., *Nereis* - Parapodium, *Hirudinaria* sp., *Tomopteris* sp.	K1-K2	1	CO1-CO2	Powerpoint presentation Observation and identification of organisms (prepared slides/ museum specimens/photographic plates)	Evaluation of observation notebook
Aug 17 - 24, 2026 (Day Order 1- 6)	3	Testing the purity of honey	K1-K4	3	CO1-CO4	Explanation and demonstration	Evaluation of testing the purity of honey
	4	Spotters: Arthropoda – *Palamnaeus* sp., *Scolopendra* sp., *Carausius* sp., *Belostoma* sp.	K1-K2	1	CO1-CO2	Powerpoint presentation Observation and identification of organisms (prepared	Evaluation of observation notebook

						slides/ museum specimens/photographic plates)	
Aug 25 – Sep 2, 2026 (Day Order 1- 6)	5 4	Observation/ Documentation: Study of any ten Invertebrate fauna in the Stella Maris College Campus (Observation of habit, habitat and adaptive features)/Pollinator Survey **Mollusca** – *Ostrea* sp., *Sepia* sp., *Pila globosa, Murex* sp.	K1 K1-K2	3 1	CO1 CO1-CO2	Campus Faunal Survey Powerpoint presentation Observation and identification of organisms (prepared slides/ museum specimens/photographic plates)	**Component Faunal survey** Evaluation of observation notebook

Sep 3 – 11, 2026 (Day Order 1- 6)	1 4	Workshop: Vermitechnology Spotters: Echinodermata – *Asterias* sp., Bipinnaria Larva, *Echinus* sp., *Synapta* sp.	K1-K5 K1-K2	3 1	CO1-CO5 CO1-CO2	Explanation and demonstration Powerpoint presentation Observation and identification of organisms (prepared slides/ museum specimens/photographic plates)	Construction of model vermipit Evaluation of observation notebook
Sep 15-17, 2026 (Day Order 1 - 3)	3	Extraction of Soil microarthropods using Berlese funnel	K1-K4	3	CO1-CO4	Explanation and demonstration	Field Work Collection of soil samples and setting up Berlese funnel for extraction of soil microarthropods
Sep 18 –23, 2026	**C.A. Test - II**						

Sep 24 - 28, 2026 (Day 4 – 6)	1	Computer Simulated Dissections Earthworm	K1-K5	1	CO1-CO5	Simulation	Evaluation of observation notebook
Sep 29 – Oct 7, 2026 (Day Order 1 - 6)	1	Dissection- Repeat: *Periplaneta americana* / *Fenneropenaeus indicus*: Digestive System and/or Nervous System	K1-K5	2	CO1-CO5	Explanation	Evaluation of dissection
	2	Mount – Repeat Body setae of Earthworm Mounts – Repeat	K1-K3	1	CO1-CO3	Explanation	Evaluation of mount
	2	Mouthparts of Mosquito and Housefly	K1-K3	1	CO1-CO3	Explanation	Evaluation of mount
Oct 8 - 14, 2026 (Day Order 1 - 6)	**Practical C.A.II – Evaluation of Observation/ Record notebook**						
	4	Apiculture – Repeat -Testing the purity of honey	K1-K4	1	CO1-CO4	Explanation	Evaluation of testing the purity of honey

Oct 15 - 21, 2026 (Day Order 1- 4)	**REVISION**

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI

COURSE PLAN (June - November 2026)

Department : **Zoology**

Name/s of the Faculty : **Dr. Janani N**

Course Title : **General Zoology I**

Course Code : **25ZL/ME/GZ12**

Shift : **I**

COURSE OUTCOMES (COs)

COs	Description	CL
CO1	recall and identify the characteristic features, classifications, and examples of major animal taxa	K1
CO2	explain the structural adaptations, modes of locomotion, reproductive strategies, and ecological roles of various animal groups, and discuss their significance in biodiversity and ecosystem functioning	K2
CO3	Apply knowledge of animal physiology and behaviour to real-world contexts, such as implementing Vermitechnology practices, assessing the impact of parasitic life cycles on human health, and evaluating conservation strategies for endangered species	K3
CO4	Analyse the interrelationships among different animal taxa, their evolutionary developments, and the influence of environmental factors on their distribution and survival, including the study of migration patterns in fishes and birds, as well as the impact of human activities on aquatic and terrestrial ecosystems	K4
CO5	Evaluate methodologies and policies related to zoological studies, and propose informed solutions to challenges in animal conservation, public K5 health concerning parasites and zoonotic diseases, and the sustainable management of biological resources, considering ethical, ecological, and socio-economic factors	K5

Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Jun 22, 2026 (Day Order 6)		Syllabus and Introduction		1		Discussion of the syllabus	
Jun 23 – July 1, 2026 (Day Order 1- 6)	1.1 & 1.2	Introduction: Outline classification of the Animal Kingdom Protozoa: Characteristic features - locomotion and conjugation in *Paramecium caudatum*	K1 – K5	3	1-5	Study using museum specimens Audio Visual Presentation	Pop Quiz Discussion on the Audio-Visual Presentation
July 2 – July 8, 2026 (Day Order 1- 6)	1.3 & 1.4	Coelenterata: Characteristic features - corals and coral reefs – conservation and economic importance Platyhelminthes & Aschelminthes: Characteristic features - helminth parasites in relation to human welfare: life cycle, mode of transmission, symptoms & prophylaxis of the following: *Taenia solium*	K1 – K5	3	1-5	Audio Visual Presentation PowerPoint Presentation	Diagram test

July 9 – 16, 2026 (Day Order 1- 6)	1.4 & 2.1	Characteristic features - helminth parasites in relation to human welfare: life cycle, mode of transmission, symptoms & prophylaxis of the following: *Ascaris lumbricoides* Annelida: Characteristic features - Vermitechnology: vermiculture, vermicomposting, vermiwash and setting up of vermiculture	K1 – K5	3	1-5	Lecture with Interaction	Short answers test
July 17 – 24, 2026 (Day Order 1- 6)	2.2	Arthropoda: Characteristic features - mode of infection and diseases caused by the following vectors: *Aedes* sp., and *Musca domestica*	K1 – K5	3	1-5	PowerPoint Presentation Audio Visual Presentation	Recapitulation
July 25 – 28, 2026 (Day Order 1- 3)	2.3 & 2.4	Mollusca: Characteristic features - economic importance Echinodermata: Characteristic features -	K1 – K5	3	1-5	Chalk Talk	Recall examples

		water vascular system in sea star					
July 29 – Aug 3, 2026	**C.A. Test – I**						
Aug 4 - 6, 2026 (Day Order 4 - 6)	3.1	Prochordata: Characteristic features of Cephalochordata, Hemichordata, and Urochordata,	K1 – K5	2	1-5	PowerPoint Presentation Study using museum specimens	Component 1 –Assignment on the given animal -15 marks - Unit 1-5
Aug 7 – 14, 2026 (Day Order 1- 6)	3.2 & 3.3	Agnatha: Characteristic features Pisces: Characteristic features	K1 – K5	3	1-5	PowerPoint Presentation	Discussion
Aug 17 - 24, 2026 (Day Order 1- 6)	3.4 & 4.1	Parental care and migration in fishes Amphibia and Reptilia: Characteristic features	K1 – K5	3	1-5	PowerPoint Presentation Audio Visual Presentation	Flash cards
Aug 25 – Sep 2, 2026 (Day Order 1- 6)	4.2 & 4.3	Parental care in amphibians Snakes of South India	K1 – K5	3	1-5	PowerPoint Presentation Audio Visual Presentation	Quiz

Sep 3 – 11, 2026 (Day Order 1- 6)	4.4 & 5.1	Turtle conservation Aves: Characteristic features	K1 – K5	3	1-5	Lecture with Discussion	Component 2 - magazine making on different themes - 25 marks – Unit 1-5
Sep 15-17, 2026 (Day Order 1 - 3)	5.1	Types of feathers	K1 – K5	1	1-5	Lecture with Discussion	Pictionary
Sep 18 –23, 2026	**C.A. Test - II**						
Sep 24 - 28, 2026 (Day 4 – 6)	5.1	Flight adaptation, Migration in birds	K1 – K5	2	1-5	PowerPoint Presentation	Infographics
Sep 29 – Oct 7, 2026 (Day Order 1 - 6)	5.2 & 5.3	Mammalia: Characteristic features Aquatic mammals	K1 – K5	3	1-5	Audio Visual Presentation	Component 3 - Quiz –10 marks - Unit 5
Oct 8 - 14, 2026 (Day Order 1 - 6)	5.4	Flying mammals - monotremes and marsupials	K1 – K5	3	1-5	PowerPoint Presentation	Recapitulation
Oct 15 - 21, 2026 (Day Order 1- 4)	**REVISION**						

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI

COURSE PLAN (June - November 2026)

Department : **Zoology**

Name/s of the Faculty : **Dr. Janani N and Dr. Parimalam M**

Course Title : **General Zoology I Practical**

Course Code : **25ZL/ME/P111**

Shift : **I**

COURSE OUTCOMES (COs)

COs	Description	CL
CO1	Submit a record of practical work carried out in the laboratory and conduct a comprehensive faunal survey on campus, document their observations systematically, and compile a detailed report	K1
CO2	Classify diverse invertebrate and chordate specimens based on their distinguishing features	K2
CO3	Recognise and describe the morphological characteristics and adaptations of major parasites and disease vectors	K3
CO4	Create and evaluate microscope slides of insect mouthparts and fish scales, identifying key structural features	K4
CO5	Dissect and analyse the anatomical structures of selected invertebrates and chordates, both physically and through computer simulations	K5

Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Jun 22, 2026 (Day Order 6)	No Class						
Jun 23 – July 1, 2026 (Day Order 1- 6)	4	Overview of syllabus General instructions Introduction to the Basics of Microscopy <u>Spotters</u> Protozoa: *Paramecium caudatum* and *Euglena* sp. Coelenterata: *Hydra* sp., and *Tubipora* sp.	K4 K2	2	CO4 CO2	Identification of organisms using preserved slides/museum specimens/ photographic plates	Evaluation of the Observation notebook
July 2 – July 8, 2026 (Day Order 1- 6)	2	<u>Mounts</u> Mouth parts: Mosquito and Housefly <u>Spotters</u>	K4	2	CO4	Explanation and Demonstration	Evaluation of the mount

	3	Observation and identification of the following Parasites: *Entamoeba histolytica*, *Taenia solium* and *Ascaris lumbricoides*	K3		CO3	Identification of organisms using preserved slides/museum specimens/ photographic plates	Evaluation of the Observation notebook
July 9 – 16, 2026 (Day Order 1- 6)	2 3	<u>Mount</u> Scales: Ctenoid Scale - Mullet; Cycloid Scale - Carp <u>Spotters</u> Observation and identification of the following Vectors: *Anopheles* sp., *Aedes* sp., *Pediculus* sp., *Xenopsylla cheopis* and *Cimex* sp	K4 K3	2	CO4 CO3	Explanation and Demonstration Identification of organisms using preserved slides/museum specimens/ photographic plates	Evaluation of the mount Evaluation of the Observation notebook
July 17 – 24, 2026 (Day Order 1- 6)	1	<u>Dissections</u> *Periplaneta americana*/*Fenneropenaeus*	K5	2	CO5	Explanation and demonstration	Evaluation of dissection

		indicus - Digestive system/Nervous system					
July 25 – 28, 2026 (Day Order 1- 3)	1 4	<u>Dissection</u> *Periplaneta americana*/ *Fenneropenaeus indicus* - Digestive system/Nervous system (Repeat) <u>Spotters</u> Annelida: *Hirudinaria* sp. and *Nereis* sp.	K5 K2	2	CO5 CO2	Explanation and demonstration Identification of organisms using preserved slides/museum specimens/ photographic plates	Evaluation of dissection Evaluation of Observation notebook
July 29 – Aug 3, 2026	**C.A. Test - I**						
Aug 4 - 6, 2026 (Day Order 4 - 6)	No class						
Aug 7 – 14, 2026 (Day Order 1- 6)	**Practical C.A. I - Evaluation of observation/ Record notebook**						
Aug 17 - 24, 2026 (Day Order 1- 6)	5	Identification of any five invertebrate and five chordate fauna in the SMC Campus	K1	2	CO1	PowerPoint presentation and Campus Faunal Survey	Faunal survey report submission

Aug 25 – Sep 2, 2026 (Day Order 1- 6)	2 4	<u>Mount</u> Placoid Scale - Shark <u>Spotters</u> Arthropoda: *Palamnaeus* sp. and *Penaeus indicus*	K4 K2	2	CO4 CO2	Explanation and demonstration Identification of organisms using preserved slides/museum specimens/ photographic plates	Evaluation of observation notebook Evaluation of Observation notebook
Sep 3 – 11, 2026 (Day Order 1- 6)	4 2	<u>Spotters</u> Mollusca: *Sepia sp*., and *Ostrea* sp. Echinodermata: *Asterias* sp., and *Holothuria* sp. Prochordata: *Amphioxus* sp., and *Ascidia* sp. Pisces: *Scoliodon* sp. and *Notopterus* sp. <u>Mount</u> Scales- Cycloid - Carp; Ctenoid - Mullet (Repeat)	K2 K4	2	CO2 CO4	Identification of organisms using preserved slides/museum specimens/ photographic plates Explanation	Evaluation of Observation notebook Evaluation of the mount

Sep 15-17, 2026 (Day Order 1 - 3)	4 2	<u>Spotters</u> Amphibia: *Duttaphrynus melanostictus* and *Ambystoma* sp. Reptilia: *Chameleon* sp., and *Naja naja* Aves: *Dinopium* sp. and *Psittacula* sp. Mammalia: *Manis* sp. and *Pteropus* sp <u>Mount</u> Placoid Scale -Shark (Repeat)	K2 K4	2	CO2 CO4	Identification of organisms using preserved slides/museum specimens/ photographic plates Explanation	Evaluation of the Observation notebook Evaluation of the mount
Sep 18 –23, 2026	**C.A. Test - II**						
Sep 24 - 28, 2026 (Day 4 – 6)	No Class						
Sep 29 – Oct 7, 2026 (Day Order 1 - 6)	1	<u>Computer Simulated Dissections</u>	K5	2	CO5	Simulation	Worksheet

		Invertebrata - Earthworm; Chordata – Frog					
Oct 8 - 14, 2026 (Day Order 1 - 6)	**Practical C.A. II - Evaluation of the observation/ Record notebook**						
Oct 15 - 21, 2026 (Day Order 1- 4)	**REVISION**						

STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI

COURSE PLAN (June - November 2026)

Department : **Zoology**

Name/s of the Faculty : **Dr. Janani N**

Course Title : **Applied Zoology**

Course Code : **25ZL/SE/AZ12**

Shift : **I**

COURSE OUTCOMES (COs)

COs	Description	CL
CO1	Recall key concepts in Applied Zoology, including Vermitechnology, Aquaculture, and the economic importance of insects, birds, and mammals	K1
CO2	Explain various biological and technological processes involved in vermicomposting, insect vector control, aquaculture methods, and sustainable animal product management	K2
CO3	Apply knowledge of techniques, such as setting up vermicomposting units, managing fish farms and evaluating the economic significance of animal-derived products	K3

Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Jun 22, 2026 (Day Order 6)	No Class						

Jun 23 – July 1, 2026 (Day Order 1- 6)	1.1	Introduction, Branches of Applied Zoology, Scope Vermitechnology: Types of Earthworms, Methods of Vermicomposting	K1-K3	1	1-3	Lecture with Interaction	Distribution of topics for the Poster Presentation Pop Quiz
July 2 – July 8, 2026 (Day Order 1- 6)	1.1	Setting up of Vermipit, Vermiwash, applications, Setting up of Vermipit - Vermiwash – applications	K1-K3	2	1-3	Audiovisual Presentation	Setting up a Vermipit and maintaining it throughout the semester (group activity) – component I – 20 marks – Unit 1.1
July 9 – 16, 2026 (Day Order 1- 6)	1.2	Economic importance of insects: Harmful and Beneficial Insects	K1-K3	2	1-3	Lecture PowerPoint Presentation	Debate- Economic Entomology: Beneficial vs Harmful Insects
July 17 – 24, 2026 (Day Order 1- 6)	1.3	Insect Vectors, their medical importance and control: Mosquitoes, Houseflies, Bedbugs	K1-K3	2	1-3	Audiovisual Presentation	Multiple Choice Questions
July 25 – 28, 2026 (Day Order 1- 3)	2.1	Types of Aquaculture: Comparative Study	K1-K3	1	1-3	PowerPoint Presentation	Recapitulation

July 29 – Aug 3, 2026	**C.A. Test - I**						
Aug 4 - 6, 2026 (Day Order 4 - 6)	2.1	Fish Culture: Management of Fish Farm	K1-K3	1	1-3	Audiovisual Presentation	Component II- Poster Presentation – 15 marks- Unit 1.2, 1.3, 2
Aug 7 – 14, 2026 (Day Order 1- 6)	2.2	Culture of Oyster (Edible Oyster and Pearl Oyster)	K1-K3	2	1-3	PowerPoint Presentation	Identifying key species of edible and pearl oysters
Aug 17 - 24, 2026 (Day Order 1- 6)	2.3	Culture of Live Feed Animals: Artemia sp. and Daphnia sp. - Byproducts of the Fishing Industry	K1-K3	2	1-3	Audiovisual Presentation	Discussion about the Audiovisual Presentation
Aug 25 – Sep 2, 2026 (Day Order 1- 6)	3.1	Poultry Science: Breeds of Fowl - Housing and Rearing	K1-K3	2	1-3	PowerPoint Presentation Audiovisual Presentation	Discussion on different types of Fowl Breeds
Sep 3 – 11, 2026 (Day Order 1- 6)	3.1 3.2	Economic Importance of Birds Economic Importance of Mammals	K1-K3 K1-K3	1 1	1-3 1-3	Lecture with Discussion	Quiz Group Discussion

						PowerPoint Presentation	
Sep 15-17, 2026 (Day Order 1 - 3)	3.2	Wool Industry: Types and Characteristics of Wool in India	K1-K3	1	1-3	PowerPoint Presentation	Pictionary
Sep 18 –23, 2026	**C.A. Test - II**						
Sep 24 - 28, 2026 (Day 4 – 6)	3.2	Wool Industry: Removal and Processing	K1-K3	1	1-3	Audiovisual Presentation	Discussion on the Audio-Visual Presentation
Sep 29 – Oct 7, 2026 (Day Order 1 - 6)	3.3	Sustainable production and consumption of animal products	K1-K3	2	1-3	Lecture with discussion	Proposal about various sustainable practices related to the production of animal products Component III- Quiz- 15 marks – Unit 3
Oct 8 - 14, 2026 (Day Order 1 - 6)	3.3	Visit to CLRI/ CMFRI/ CIBA/ any other Research organisation	K1-K3	2	1-3	Visit to the research organisation	Submission of Research Organisation Visit Report

Oct 15 - 21, 2026 (Day Order 1- 4)	**REVISION**