## Loyola College (Autonomous) Chennai 600034

B. Sc. Advanced Zoology and Biotechnology

Restructured CBCS curriculum with effective from June, 2016

Code	Title of the Paper			OLD/	% Change	Restructured CBCS curriculum with effective from
		Code	Title of the paper	NEW		June, 2016
						Description
	2003 -2004		2012-13			2016-17
SEMESTI	ER I					
ZO 1500	Invertebrata	AZ 1506	Invertebrata	OLD	30	Major portion retained as such with revision of Unit IV
						and V and updating Reference Books, Text Books and
						web resources.
ZO 1501	Invertebrata Lab	AZ 1507	Invertebrata lab course	OLD	30	Major portion retained as such with revision of Unit IV
	course					and V and updating Reference Books, Text Books and
						web resources.
		AZ 1508	<b>Economic Entomology</b>	NEW	100	New paper focuses on sustainable environment and
						livelihood.
SEMESTE	ER II					
ZO 2500	Chordata	AZ 2504	Chordata	OLD	40	Major portion retained as such with revision of all units
						and updating Reference Books, Text Books and web
						resources.
ZO 2501	Chordata Lab	AZ 2505	Chordata lab course	OLD	40	Major portion retained as such with revision of all units
	Course					and updating Reference Books, Text Books and web
						resources.

		AZ 2506	Basic Biotechnology	NEW	100	New paper focusing on basics of biotechnology and applications of biotechnology in Agriculture, Food Processing and Health care.
		AZ 2104	Animal diversity	NEW	100	New paper covers basics of animal taxonomy, classification and diversity with details on systematic position and habitat specific diversity.
		AZ 2105	Animal diversity Lab course	NEW	100	New paper detailing structural organization of type study from all animal phyla.
SEMESTI	ER III	1				
ZO 3500	Physiology	AZ 3508	Animal Physiology and Biochemistry	OLD	30	Major portion retained as such with revision of all units and updating Reference Books, Text Books and web resources.
ZO 3501	Physiology Lab Course	AZ 3509	Animal Physiology & Biochemistry Lab course	OLD	30	Major portion retained as such with revision of all units and updating Reference Books, Text Books and web resources.
ZO 3020	Computer Science for Zoology	AZ 3510	Developmental Biology	NEW	100	New paper focuses on embryological features of animals providing details on organogenesis and development of adaptive features.
		AZ 3301	Clinical Techniques	NEW	100	New paper focuses on tools and techniques for clinical diagnosis detailing diseases spread through vectors their prognosis, diagnosis and treatment.
		AZ 3200	Agricultural Entomology	NEW	100	New paper proving details on pest causing insects of pulses, seeds, stored grains etc., with a detailed account on their control measures.
		AZ 3201	Agricultural Entomology Lab course	NEW	100	New paper provides hands on experience on collection and preservation of insects that pose serious threat to

						agriculture.
SEMESTI	ER IV					
ZO 4501	Environmental Biology	AZ 4506	Environmental Biology	OLD	30	Major portion retained as such with revision of all units and updating Reference Books, Text Books and web resources.
ZO 4502	Environmental Biology Lab Course	AZ 4507	Environmental Biology Lab Course	OLD	30	Major portion retained as such with revision of all units and updating Reference Books, Text Books and web resources.
ZO 4500	Embryology and Evolution	AZ 4505	Organic Evolution	OLD	50	Major portion retained as such deleting embryology part and change of title and corresponding revision of all units and updating Reference Books, Text Books and web resources.
		AZ 4301	Human Health and Hygiene	NEW	100	New paper providing in depth information on human health and hygiene emphasizing the importance of prevention and control.
		AZ 4200	Bioinformatics	NEW	100	New paper offered to statistics students covering the extensive applications of computers in collecting, storing and retrieving biological data.
		AZ 4201	Bioinformatics Lab course	NEW	100	New paper offered to statistics students provides hands on experience on tools and techniques available to explore the applications of computers in biology.
SEMESTI	ER V					
ZO 5500	Cell Biology	AZ 5516	Cell and Molecular Biology	OLD	50	Major portion retained as such deleting few chapters and change of title and corresponding revision of all units and updating Reference Books, Text Books and web resources.

ZO 5501	Genetics	AZ 5520	Genetic Engineering	OLD	50	Major portion retained as such deleting few chapters and change of title and corresponding revision of all units and updating Reference Books, Text Books and web resources.
ZO 5502	Biotechnology	AZ 5519	Animal Biotechnology	OLD	50	Major portion retained as such deleting few chapters and change of title and corresponding revision of all units and updating Reference Books, Text Books and web resources.
ZO 5401	Immunology	AZ 5517	Immunology	OLD	40	Major portion retained as such with revision of all units and updating Reference Books, Text Books and web resources.
ZO 5400	Reproductive Physiology	AZ 5518	<b>Principles of Genetics</b>	NEW	100	New paper provides basic understanding on the principles of genetics and genetic traits.
		AZ 5403	Medical Laboratory Techniques	NEW	100	New paper covers techniques available and widely used to test and understand the symptoms and expressions of human illsness.
ZO 5503	Cytogenetics and Biotechnology Lab course	AZ 5521	Molecular Biology, Genetics & Biotechnology Lab course	OLD	50	Major portion retained as such deleting few chapters and adding content on Genetics and change of title and corresponding revision of all units and updating Reference Books, Text Books and web resources.
ZO 5504	Economic Entomology	AZ 5402	Instrumentation and chemical Techniques	NEW	100	New paper covering the working principle and methodology of major analytical instruments.
ZO 5505	Economic Entomology Lab Course			OLD		Removed and new papers introduced in its place
SEMESTE	R VI					

ZO 6600	Environment	AZ 6603	Environmental	OLD	50	Major portion retained as such deleting few chapters on
	Management and		Biotechnology			ecological methods and title changed, new units
	Ecological					included for Biotechnology and corresponding revision
	methods					of all units and updating Reference Books, Text Books
						and web resources.
ZO 6601	Wildlife	AZ 6604	Bioinformatics	NEW	100	New paper covering the extensive applications of
	Management and					computers in collecting, storing and retrieving
	Biodiversity					biological data
ZO 6602	Ecological	AZ 6605	<b>Facets of Bioethics</b>	NEW	100	New paper focuses on the ethical implications of
	methods Lab					modern science.
	course					
ZO 6650	Poultry and Dairy	AZ 6651	<b>Poultry and Dairy Science</b>	OLD	40	Major portion retained as such with revision of all units
	Science					and updating Reference Books, Text Books and web
						resources.