## 1.1.2 - BOS Minutes

#### Dr. J.M.V. KALAIARASI M.Sc., M.Phil., Ph.D. Associate Professor & Head Research Supervisor

Research Supervisor School of Environmental Toxicology & Biotechnology



#### LOYOLA COLLEGE (AUTONOMOUS)

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## P.G. Research Department of Advanced Zoology and Biotechnology Loyola College (Autonomous), Chennai 600 034

Minutes of the meeting of the Board of Studies held on 08.02.2016 at 10.00 am

### Agenda

Restructured curriculum and syllabi for B.Sc Advanced Zoology and Biotechnology, M.Sc Zoology and M.Phil Zoology.

S. No.	Name	Institution	Signature
1	University Nominee		
2	Dr. Vignesh Muthuvijayan Subject expert	Assistant Professor Department of Biotechnology Indian Institute of Madras Chennai, India	M. vignar
3	<b>Dr. A. Premalatha</b> Subject expert	Head of the Department Department of Adv. Zoology and Biotech., Meenakshi College for Women Chennai, India	Ountalt
4	Mr. V. Saravana Perumal Industrial Tie-Up	General Manager ABBES Biotech Chennai, India	Keeny
5.	<b>Dr. B. Velmurugan</b> Prominent Alumni	Assistant Professor Department of Advanced Zoology and Biotechnology, Sir Theagaraya College, Chennai -21	b. vehump
6	Mr. M. Jeremiah Daniel Paul Student representative	III B.Sc. Student Department of Adv. Zoology & Biotech Loyola College, Chennai	MJPP
7	Mr. K. Arul Student representative	II M.Sc. Student Department of Adv. Zoology & Biotech Loyola College, Chennai	Hy. End
8.	<b>Mr. L. Premraj</b> Research Scholar	Research Scholar Department of Adv. Zoology & Biotech Loyola College, Chennai	Opmige.



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S. No.	Name	Institution	Signature	
	Dr. J. M. V. Kalaiarasi	Associate Professor		
9	Chairman & Head	Department of Advanced Zoology and	Tromalaio	
2.00	Chairman & Head	Biotechnology, Loyola College, Chennai	Grunde	
		Associate Professor		
10	Dr. Albin T. Fleming	Department of Advanced Zoology and	Litte	
		Biotechnology, Loyola College, Chennai	JUS 10	
		Associate Professor	101	
11	Prof. A. Amalraj	Department of Advanced Zoology and	Ame	
-		Biotechnology, Loyola College, Chennai	26	
		Associate Professor		
12	Dr S. John William	Department of Advanced Zoology and	1.Jm	
		Biotechnology, Loyola College, Chennai		
		Associate Professor	0	
13	Dr S. Vincent	Department of Advanced Zoology and	Com	
a start		Biotechnology, Loyola College, Chennai	///	
	Dr M. C. John Milton	Assistant Professor		
14		Department of Advanced Zoology and	ON LEAVE	
		Biotechnology, Loyola College, Chennai		
		Assistant Professor	Van	
15	Dr K. Thresia Mathews	Department of Advanced Zoology and	Alhenic	
		Biotechnology, Loyola College, Chennai	Alphenia Mather	
		Assistant Professor	Kines	
16	Dr V. Pushpa Rani	Department of Advanced Zoology and	att	
		Biotechnology, Loyola College, Chennai	TETIN	
		Assistant Professor		
17	Dr M. Raja	Department of Advanced Zoology and	Alton	
		Biotechnology, Loyola College, Chennai	200	
	Prof. Mary Dorthy Anitha	Assistant Professor	1	
18	Sebasitan	Department of Advanced Zoology and	A mitte	
		Biotechnology, Loyola College, Chennai	A	
	D. D. C.M. I. D. II	Assistant Professor	10 11	
19	Rev. Dr. S. Maria Packiam	Department of Advanced Zoology and	2619117	
1.1		Biotechnology, Loyola College, Chennai	2111	
	DUDI	Assistant Professor	Dala	
20	Dr. V. Raja	Department of Advanced Zoology and	alight	
		Biotechnology, Loyola College, Chennai	201	

**Proposals:** Restructured syllabi for B.Sc Advanced Zoology and Biotechnology and M.Sc Zoology.



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Annexure

Restructured CBCS curriculum with effective from June, 2016

Details on subject wise revision/modification suggested and approved in the Board of Studies

Code	Title of the paper	OLD/ NEW	% Change	Description
	2012-13	1		
SEMEST	'ER I			
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.
AZ 1507	Invertebrata lab course	OLD	30	Major portion retained as such with revision of Unit IV and V and updating Reference Books, Text Books and web resources.
AZ 1508	Economic Entomology	NEW	100	New paper focuses on sustainable environment and livelihood.
SEMEST	ERII			
AZ 2504	Chordata	OLD	40	Major portion retained as such with revision of all units and updating Reference Books, Text Books and web resources.
AZ 2505	Chordata lab course	OLD	40	Major portion retained as such with revision of all units 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.

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AZ 2104	Animal diversity	NEW	100	
	- minur arvorbity		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.
SEMEST	ER III			
AZ 3508	Animal Physiology and	OLD	30	Major portion of the last
	Biochemistry	OLD	50	Major portion retained as such with revision of all
	Broonomistry			units and updating Reference Books, Text Books
47.2500				and web resources.
AZ 3509	Animal Physiology &	OLD	30	Major portion retained as such with revision of all
	Biochemistry Lab course	1.0 10 4		units and updating Reference Books, Text Books
				and web resources.
AZ 3510	Developmental Biology	NEW	100	New paper focuses on embryological features of
		A REAL PROPERTY		animals providing details on organogenesis and
AZ 3301	Clinical Techniques	NICXV	100	development of adaptive features.
	Chinical rechniques	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	NEW	100	
	course		100	New paper provides hands on experience on
			1. 2	collection and preservation of insects that pose
19 Jan 1		A second		serious threat to agriculture.

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SEMESTE	RIV			
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.
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.
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.
SEMESTE	CR V			
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.

m alara Dr. J.M.V. KALAIARASI, M.Se., M.Phil., Ph.D., Professor & Head P.G. & Research Department of Advanced Zoology & Biotechnology



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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.
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.
AZ 5517	Immunology	OLD	40	Major portion retained as such with revision of all units and updating Reference Books, Text Books and web resources.
AZ 5518	Principles of Genetics	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.
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.
AZ 5402	Instrumentation and chemical Techniques	NEW	100	New paper covering the working principle and methodology of major analytical instruments.
		OLD	£.	Removed and new papers introduced in its place

Formalaian Dr. J.M.V. KALAIARASI, M.Sc., M.Phil., Ph.D., Professor & Head P.G. & Research Department of Advanced Zoology & Biotechnology Research Supervisor School of Environment Toxicology & Biotechnology Loyola College (Autonomous), Chennai-600 034.



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SEMEST	ER VI			
AZ 6603	Environmental Biotechnology	OLD	50	Major portion retained as such deleting few chapters on ecological methods and title changed, new units included for Biotechnology and corresponding revision of all units and updating Reference Books, Text Books and web resources.
AZ 6604	Bioinformatics	NEW	100	New paper covering the extensive applications of computers in collecting, storing and retrieving biological data
AZ 6605	Facets of Bioethics	NEW	100	New paper focuses on the ethical implications of modern science.
AZ 6651	Poultry and Dairy Science	OLD	40-	Major portion retained as such with revision of all units and updating Reference Books, Text Books and web resources.

## M. Sc Zoology

Sub. Code	Title of the paper	OLD/ NEW	% Change	
#1 	2012-13			
16PZO1 MC01	Phylogeny of Invertebrata and Chordata	OLD	40	Major portion retained as such with revision of all units and updating Reference Books, Text Books and web resources.
16PZO1 MC02	Biosystematics	OLD	40	Major portion retained as such with revision of all units and updating Reference Books, Text Books and web resources.

Imrelaianasi Dr. J.M.V. KALAIARASI, M.Sc., M.Phil., Ph.D.,

UT. J.M.V. NALAIARASI, M.SC., M.Phil., Ph.D., Professor & Head P.G. & Research Department of Advanced Zoology & Biotechnology Research Supervisor School of Environment Toxicology & Biotechnology Loyola College (Autonomous), Chennai-600 034.



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16PZO1	Advanced developmental	OLD	40	Major portion retained as such with revision of all
MC03	biology			units and updating Reference Books, Text Books and web resources.
16PZO1	Applied Entomology	OLD	40	Shifted from 2 <sup>nd</sup> semester to 1 <sup>st</sup> semester, content
MC04				retained as such with revision of all units and updating Reference Books, Text Books and web resources.
16PZO1	Animal Behavioral Biology	NEW	100	New paper to provide detailed information on
MC05				aspects of animal beahaviour like instincts, learning, intelligence and tool use.
16PZO1	Invertebrata, Chordata &	OLD	40	Major portion retained as such with revision of all
MC06	Developmental Biology lab course			units and updating Reference Books, Text Books and web resources.
16PZO1	Molecular cell biology	OLD	40	Major portion retained as such with revision of all
MC01				units and updating Reference Books, Text Books and web resources.
16PZO1	Radiation Biology	NEW	100	New paper covering pros and cons of ionizing and
MC02				non-ionizing radiation with details on applications in health and diagnosis.
16PZO1	Biochemistry	OLD	40	Major portion retained as such with revision of all
MC03				units and updating Reference Books, Text Books and web resources.
16PZO1	Advanced evolutionary	OLD	40	Major portion retained as such with revision of all
MC04	biology		Ĩ	units and updating Reference Books, Text Books and web resources.
16PZO1	Molecular Cell biology lab	OLD	50	Major portion retained as such with revision of all
MC05	course			units and updating Reference Books, Text Books and web resources and title change.
				Formkalcue



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16PZO1	Histochemical Technology	OLD	40	Major portion retained as such with revision of all
MC06	(OR)			units and updating Reference Books, Text Books
				and web resources.
16PZO1	Clinical Lab Technology	OLD	40	Major portion retained as such with revision of all
MC01				units and updating Reference Books, Text Books
				and web resources.
16PZO3	Environmental Biology and	OLD	40	Major portion retained as such with revision of all
MC01	Management			units and updating Reference Books, Text Books
			1.00	and web resources.
16PZO3	Research Methodology &	OLD	40	Major portion retained as such with revision of all
MC02	Biostatistics			units and updating Reference Books, Text Books
				and web resources.
16PZO3	Animal Physiology	OLD	40	Major portion retained as such with revision of all
MC03				units and updating Reference Books, Text Books
				and web resources.
16PZO3	Eco - Physiology Lab course	OLD	50	Major portion retained as such with revision of all
MC04				units and updating Reference Books, Text Books
				and web resources.
16PZO3E	Bioinformatics (Or)	OLD	40	Major portion retained as such with revision of all
S01				units and updating Reference Books, Text Books
				and web resources.
16PZO3E	Aquaculture	NEW	100	New Paper covering in-depth information on
S02				nature and types of cultivable species, methods of
			3	cultivation and sustainability.
16PZO3I	Bio-products and Marketing	OLD	40	Major portion retained as such with revision of all
D01				units and updating Reference Books, Text Books
				and web resources.

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Nothing is impossible, the word itself says "I'm possible"!

Dr. J.M.V. KALAIARASI, M.Sc., M.Phil., Ph.D., Professor & Head P.G. & Research Department of Advanced Zoology & Biotechnology Research Supervisor



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16PZO4P	Project and Dissertation			
J01				
16PZO4 MC01	Microbiology and Immunology	OLD	40	Major portion retained as such with revision of all units and updating Reference Books, Text Books and web resources.
16PZO4 MC02	Biotechnology	OLD	40	Major portion retained as such with revision of all units and updating Reference Books, Text Books and web resources.
16PZO4 MC03	Microbiology and Biotechnology Lab course	OLD	40	Major portion retained as such with revision of all units and updating Reference Books, Text Books and web resources.

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# P.G. & RESEARCH DEPARTMENT OF ADVANCED ZOOLOGY AND BIOTECHNOLOGY LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034 BOARD OF STUDIES CHAIRPERSON: DR. J.M.V. KALAIARASI, Associate Professor & Head

Date: 28/08/18

SL. NO.	EXPERTS	DESIGNATION School	Advanced Zoology & Biotechnolo Research Supervisor of Environment Toxicology & Biot a College (Autonomous), Chennai
1.	PROF.S. JANARTHANAN UNIVERSITY NOMINEE	PROFESSOR AND HEAD DEPARTMENT OF ZOOLOGY UNIVERSITY OF MADRAS, GUINDY CAMPUS, CHENNAI	5. Jule 10-91
2.	DR. VIGNESH MUTHVIJAYAN SUBJECT EXPERT	ASSISTANT PROFESSOR DEPARTMENT OF BIOTECHNOLOGY INDIAN INSTITUTE OF MADRAS CHENNAI, INDIA	Own latter
3.	DR. A. PREMALATHA SUBJECT EXPERT	HEAD OF THE DEPARTMENT DEPARTMENT OF ADV. ZOOLOGY AND BIOTECHNOLOGY MEENAKSHI COLLEGE FOR WOMEN CHENNAI, INDIA	
4.	DR. B.VELMURUGAN SUBJECT EXPERT	ASSISTANT PROFESSOR SIR THEAGARAYA COLLEGE CHENNAI, INDIA	B. velmanpin 28.081.2018
5.	MR. V. SARAVANA PERUMAL INDUSTRIAL TIE-UP	GENERAL MANAGER ABBES BIOTECH CHENNAI, INDIA	

SL. NO.	NAME OF THE FACULTY	DESIGNATION	en
1	MR. A. AMALRAJ	ASSOCIATE PROFESSOR	And
2	DR. S. VINCENT	ASSOCIATE PROFESSOR	anny
3	DR. M.C. JOHN MILTON	ASSISTANT PROFESSOR	Mahlumi
4	DR. K. THRESIA MATHEWS	ASSISTANT PROFESSOR	Alphymia Mallie
5	DR. V. PUSHPA RANI	ASSISTANT PROFESSOR	28 00 15 xcm
6	DR. M. RAJA	ASSISTANT PROFESSOR	X w toelts
7	MS. MARY DOROTHY ANITHA SEBASTIAN	ASSISTANT PROFESSOR	Avit's Elis.
8	REV. DR. S. MARIA PACKIAM	ASSISTANT PROFESSOR	28.8.2018
9	Prof.V.JELIN	ASSISTANT PROFESSOR	No 128/8/18
10	DR.V.RAJA	ASSISTANT PROFESSOR	Serlew.
11	PROF.GOMATHI JEYAM	ASSISTANT PROFESSOR	Jan 18

## **MEMBER OF THE BOARD OF STUDIES - STAFFS**

## MEMBER OF THE BOARD OF STUDIES-STUDENTS

SL. NO.	ALUMNI	POSITION	
1	MR.SURESH	RESEARCH SCHOLAR DEPARTMENT OF ZOOLOGY LOYOLA COLLEGE	W. 1 28/8/18
2	MS.ALMA	II MSC STUDENT DEPARTMENT OF ZOOLOGY LOYOLA COLLEGE	AlmeHair
3	MR. S. BALAKRISHNAN	III B.SC. STUDENT DEPARTMENT OF ZOOLOGY LOYOLA COLLEGE	2. mgeren

Dr. J.M.V. KALAIARASI M.Sc., M.Phil., Ph.D. Associate Professor & Head P.G. & Research Department of Advanced Zoology & Biotechnology Research Supervisor Environmental Toxicology & Biotechnology Centre for Research



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#### P.G. & RESEARCH DEPARTMENT OF ADVANCED ZOOLOGY AND BIOTECHNOLOGY LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

#### BOARD OF STUDIES

Agenda

Date: 23/03/2019

Template finalization, U.G. first two semesters restructuring and new guide papers approval.

SL. NO.	EXPERTS	DESIGNATION	
1.	PROF.S. JANARTHANAN UNIVERSITY NOMINEE	Professor and Head Department Of Zoology University Of Madras, Guindy Campus, Chennai	5: 5000000
2.	Dr. VIGNESH MUTHVIJAYAN SUBJECT EXPERT	Assistant Professor Department Of Biotechnology Indian Institute Of Madras Chennai, India	Mignar
3.	Dr. B.VELMURUGAN SUBJECT EXPERT	Assistant Professor Sir Theagaraya College Chennai, India	B. Velmungar 23.03.19
4.	Mr. V. SARAVANA PERUMAL INDUSTRIAL TIE-UP	General Manager Abbes Biotech Chennai, India	born
5.	Mr. SAMUEL A. V. KUMAR ALUMINUS	Administrator Kovil Pillai Memorial Matriculation Higher Secondary School, Chennai	AL

#### CHAIRPERSON: DR. J.M.V. KALAIARASI, Associate Professor & Head

Dr. J.M.V. KALAIARASI M.Sc., M.Phil., Ph.D. Associate Professor & Head P.G. & Research Department of Advanced Zoology & Biotechnology Research Supervisor Environmental Toxicology & Biotechnology Centre for Research



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#### Agenda

#### Date: 23/03/2019

Template finalization, U.G. first two semesters restructuring and new guide papers approval.

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1.	PROF.S. JANARTHANAN UNIVERSITY NOMINEE	Professor and Head Department Of Zoology University Of Madras, Guindy Campus, Chennai	5. Jacoby
2.	Dr. VIGNESH MUTHVIJAYAN SUBJECT EXPERT	Assistant Professor Department Of Biotechnology Indian Institute Of Madras Chennai, India	Minignan
3.	Dr. B.VELMURUGAN SUBJECT EXPERT	Assistant Professor Sir Theagaraya College Chennai, India	B. Velmungan 23.03. )
4.	Mr. V. SARAVANA PERUMAL INDUSTRIAL TIE-UP	General Manager Abbes Biotech Chennai, India	book
5.	Mr. SAMUEL A. V. KUMAR ALUMINUS	Administrator Kovil Pillai Memorial Matriculation Higher Secondary School, Chennai	AP

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SL. NO.	NAME OF THE FACULTY	DESIGNATION	
1	Mr. A. AMALRAJ	Associate Professor Dept. of Advanced Zoology & Biotechnology, Loyola College	R
2	Dr. S. VINCENT	Associate Professor Dept. of Advanced Zoology & Biotechnology, Loyola College	ann.
3	Dr. M.C. JOHN MILTON	Assistant Professor Dept. of Advanced Zoology & Biotechnology, Loyola College	Ne. Mutuluij
4	Dr. K. THRESIA MATHEWS	Assistant Professor Dept. of Advanced Zoology & Biotechnology, Loyola College	Kimenic Malhaw
5	Dr. V. PUSHPA RANI	Assistant Professor Dept. of Advanced Zoology & Biotechnology, Loyola College	23/3/19
6	Dr. M. RAJA	Assistant Professor Dept. of Advanced Zoology & Biotechnology, Loyola College	ABSENT
. 7	Mrs. MARY DOROTHY ANITHA SEBASTIAN	Assistant Professor Dept. of Advanced Zoology & Biotechnology, Loyola College	Anith
8	REV. Dr. S. MARIA PACKIAM	Assistant Professor Dept. of Advanced Zoology & Biotechnology, Loyola College	U_
9	Mrs. V. JELIN	Assistant Professor Dept. of Advanced Zoology & Biotechnology, Loyola College	No lug-
10	Dr. V. RAJA	Assistant Professor Dept. of Advanced Zoology & Biotechnology, Loyola College	25319.