



**Minutes of the Board of Studies Meeting of the  
Department of Zoology held on 02.12.2021**

*via google meet at 10 am*

<https://meet.google.com/wwx-jrte-kym>



**Ref. No.: ZOOL/BOS/2021-22/16**

**Members of the Board of Studies**

**Dr. Brisca Renuga**

Head, Department of Zoology  
Holy Cross College, Nagercoil

**Chair person**

**Dr. S.P. Sevarkodiyone**

Associate Professor  
Department of Zoology  
Ayya Nadar Janaki Ammal College  
Sivakasi, Tamil Nadu.

**University Nominee**

**Dr. K. Sahayaraj**

Head and Associate Professor  
Department of Zoology,  
St. Xavier's College (Autonomous)  
Palayamkottai, Tamil Nadu.

**Subject Expert**

**V. Robin Perinba Smith**

Head, Department of Zoology,  
Scott Christian College,  
Nagercoil, Kanyakumari District,  
Tamil Nadu

**Subject Expert**

## **Department Members**

**Dr. S. Mary Mettilda Bai**, Assistant Professor

**Dr. J. Vinoliya Josephine Mary**, Assistant Professor

**Dr. A. Shyla Suganthi**, Assistant Professor

**Dr. P.T. Arokya Glory**, Assistant Professor

**Dr. Jeni Chandar Padua**, Assistant Professor

**Dr. A. Punitha**, Assistant Professor

**Dr. X. Venci Candida**, Assistant Professor

**Dr. S. Prakash Shoba**, Assistant Professor

**Dr. C. Anitha**, Assistant Professor

The following member is absent for the meeting

**Dr. C. Josephine Priyatharshini**, Assistant Professor

The 16<sup>th</sup> Board of Studies meeting in Zoology was held on 02.12.2021 in the Department of Zoology at 10 AM via Google Meet. The meeting commenced with silent prayer. Dr. F. Brisca Renuga, the Chair Person of the Board and Head of the Department welcomed all the Members of the Board and presented the agenda of the meeting.

### **The agenda of the meeting includes**

1. Prayer
2. Welcome by the Chairperson
3. Reading of the minutes of the previous meeting
4. Revamping / Revision of Curriculum of UG
5. UG Syllabus for Semester V and VI
6. Classification of New Courses
7. Classification of courses as Employability / Entrepreneurship / Skill Development
8. Classification of courses as Local / National / Regional / Global
9. Classification of courses as Crosscutting Issues Gender Equity / Environment and Sustainability / Human Values / Professional Ethics
10. Recommendation of books and journals for UG and PG
11. Feedback and action taken
12. Next Meeting of BoS
13. Any other.

**The following items in the agenda were discussed by the members of the Board:**

**Item 01/BoS 02.12/03: Approval of the minutes of the previous meeting held on 02.01.2020:**

Dr. S. Mary Mettilda Bai read the minutes of the 16<sup>th</sup> Board of Studies meeting and it was approved by the members.

**Item 02/BoS 02.12/04:** Approval of Revamping / Revision of Curriculum of UG.

The Board approved the revamped and revised curriculum structure.

**Distribution of Hours and Credits**

Course	Sem. I	Sem. II	Sem. III	Sem. IV	Sem. V	Sem. VI	Total	
							Hours	Credits
<b>Academic Courses</b>								
<b>Part I: Language</b>	6 (4)	6 (4)	6 (4)	6 (4)	-	-	24	16
<b>Part II: English</b>	6 (4)	6 (4)	6 (4)	6 (4)	-	-	24	16
<b>Part III</b>								
Major Core - Theory	4 (4)	4 (4)	4 (4)	4 (4)	6 (6) + 6 (6) + 6 (5)	6 (6) + 6 (6) + 6 (5)	52	50
Major Core - Practical	2	2 (2)	2	2 (2)	2 + 2 + 2	2 (2) + 2 (2) + 2 (2)	20	10
Major Elective/ Project	-	-	4 (3)	4 (3)	4 (3)	4 (3)	16	12
Allied – Theory	4 (3)	4 (3)	4 (3)	4 (3)	-	-	16	12
Allied – Practical	2	2 (2)	2	2 (2)	-	-	8	4
<b>Part IV</b>								
Add on Course (Professional English)	2 (2)	2 (2)	2 (2)	2 (2)	-	-	8	8
NMEC (Non-Major Elective Course)	2 (2)	2 (2)	-	-	-	-	4	4
SEC (Skill Enhancement Course)	2 (2)	2 (2)	-	-	-	2 (2)	6	6
AEC (Ability Enhancement Course)	-	-	-	-	2 (2)	-	2	2
<b>Total</b>	<b>30(21)</b>	<b>30(25)</b>	<b>30(20)</b>	<b>30(24)</b>	<b>30(22)</b>	<b>30 (28)</b>	<b>180</b>	<b>140</b>
<b>Non-Academic Courses</b>								
<b>Part V</b>								
*FC I: Values for Life	-	(1)					-	1
*FC II: Personality Development			-	(1)			-	1



*FCIII: Human Rights Education					(1)		-	1
*FC IV: Gender Equity Studies						(1)	-	1
*SLP-Community Engagement Course		(1)	(1)				-	2
*SLP-Extension activity (RUN)			(1)	(1)			-	2
*STP - Clubs & Committees / NSS		(1)		(1)			-	2

**Total number of Hours = 180**

**Total number of Compulsory Credits = 140+10**

**\* Mandatory Courses conducted outside the regular working hours.**

Skill Development Programme is (Mandatory Certificate Course - 60 hours) will be offered in the first year for all the students.

**Credits:** The total minimum credits required for the award of UG Degree is 150 credits.

**Extra credits (Maximum 5 credits)**

Extra credits can be acquired by taking up the following initiatives:

- i. **Self - Learning/Online Course** (Maximum 2 courses) - 2 Credit per course
- ii. **Sports Representation** – (Maximum 5 credits)
  - International level - 5 Credits
  - National level - 4 Credits
  - State level - 3 Credits
  - University level - 2 Credits
  - District level - 1Credit
- iii. **Publication in Journals** (International/National)- 1 Credit (max.3 papers)
- iv. **Innovative Prototypes & Business models:** Students shall earn 2 credits (per prototype/model) for working on Innovative prototypes/business models
- v. **Startup Ventures:** Students engaged in startups can be exempted from membership in other Clubs and Committees and special credit of 5 shall be awarded to them during the period of pre-incubation, incubation, and startup.

**Item 03/BoS 02.12/05:** Approval of UG Syllabus for Semester V and VI.

The board approved the V and VI semester Programmes with a change in number of spotters for each Practical Course to a maximum of 20 and V semester SBC based project as Subject based project.

Semester	Part	Course Code	Academic courses	Hours	Credits
V	Part III	ZC2051	Major Core V: Physiology	6	6
		ZC2052	Major Core VI: Biotechnology	6	6
		ZC2053	Major Core VII: Ecology and Toxicology	6	5
		ZC20PR	**Project	4	3
		ZC20P3	Major Practical III: Physiology & Biotechnology	4	-
		ZC20P4	Major Practical IV: Ecology and Toxicology & Organic Evolution	2	-
	Part IV	AEC201	Ability Enhancement Course (AEC): Environmental Studies	2	2
Part V	FCV203	Foundation Course III: Human Rights Education	-	1	
VI	Part III	ZC2061	Major Core VIII: Developmental Zoology	6	6
		ZC2062	Major Core IX: Immunology and Microbiology	6	6
		ZC2063	Major Core X: Organic Evolution	6	5
		ZC2064 ZC2065 ZC2066	Major Elective III: (a) Economic Zoology/ (b) Sericulture/ (c) Aquaculture	4	3
		ZC20P3	Major Practical III: Physiology & Biotechnology	-	2
		ZC20P4	Major Practical IV: Ecology and Toxicology & Organic Evolution	2	2
		ZC20P5	Major Practical V: Developmental Zoology & Immunology and Microbiology	4	2
	Part IV	ZSK206	*** Skill Enhancement Course (SEC): Vermitechnology	2	2
	Part V	FCV204	Foundation Course IV: Gender Equity Studies (GES)	-	1

**Item 04/BoS 02.12/06:** Approval of new courses.

The courses namely Ecology and Toxicology (ZC2053), Project (ZC20PR), Major Practical III – Physiology and Biotechnology (ZC20P3), Major Elective III – (a) Economic Zoology (ZC2064), Major Elective III – (c) Aquaculture (ZC2066), Major Practical IV -Ecology and Toxicology & Organic Evolution (ZC20P4), Major Practical V –Developmental Zoology & Immunology and Microbiology (ZC20P5) are approved as new courses with more than 21 to 100 % of revision.



The Board approved the newly introduced value-added courses such as, First Aid, Ecofriendly products from sericulture waste for I UG, Basics of hospital management, House hold waste management and Dairy products for II UG, Silkworm rearing technology and medical coding for III UG.

**Item 05/BoS 02.12/07:** Approval of Classification of courses as Employability (EM)/ Entrepreneurship (EN) / Skill Development (SD)

Part	Course Code	Courses	EM	EN	SD
<b>Part III</b>	ZC2051	Major Core V: Physiology	✓		✓
	ZC2052	Major Core VI: Biotechnology	✓	✓	✓
	ZC2053	Major Core VII: Ecology and Toxicology			✓
	ZC20P3	Major Practical III Physiology & Biotechnology	✓	✓	✓
	ZC20P4	Major Practical IV Ecology and Toxicology & Organic Evolution		✓	✓
<b>Part IV</b>	AEC201	Ability Enhancement Course (AEC): Environmental Studies		✓	✓
<b>Part V</b>	FCV203	Foundation Course III: Human Rights Education	✓		✓
<b>Part III</b>	ZC2061	Major Core VIII: Developmental Zoology			✓
	ZC2062	Major Core IX: Immunology and Microbiology	✓	✓	✓
	ZC2063	Major Core X: Organic Evolution	✓		✓
	ZC2064	Major Elective III: (a) Economic Zoology/	✓	✓	✓
		(b) Sericulture/		✓	✓
		(c) Aquaculture		✓	✓
	ZC20P3	Major Practical III: Physiology & Biotechnology	✓	✓	✓
	ZC20P4	Major Practical IV: Ecology and Toxicology & Organic Evolution	✓		✓
	ZC20P5	Major Practical V: Developmental Zoology & Immunology and Microbiology	✓	✓	✓
<b>Part IV</b>	ZSK206	*** Skill Enhancement Course (SEC): Vermitechnology		✓	✓
<b>Part V</b>	FCV204	Foundation Course IV: Gender Equity Studies (GES)	✓		✓

**Item 05/BoS 02.12/07: Approval of Classification of courses as Local / National / Regional / Global.**

<b>Part</b>	<b>Course Code</b>	<b>Courses</b>	<b>Local</b>	<b>Regional</b>	<b>National</b>	<b>Global</b>
<b>Part III</b>	ZC2051	Major Core V: Physiology	✓		✓	✓
	ZC2052	Major Core VI: Biotechnology			✓	✓
	ZC2053	Major Core VII: Ecology and Toxicology	✓	✓	✓	✓
	ZC20PR	**Project	✓		✓	✓
	ZC20P3	Major Practical III Physiology & Biotechnology			✓	✓
	ZC20P4	Major Practical IV Ecology and Toxicology & Organic Evolution	✓		✓	
<b>Part IV</b>	AEC201	Ability Enhancement Course (AEC): Environmental Studies	✓		✓	✓
<b>Part V</b>	FCV203	Foundation Course III: Human Rights Education	✓	✓		
<b>Part III</b>	ZC2061	Major Core VIII: Developmental Zoology		✓	✓	✓
	ZC2062	Major Core IX: Immunology and Microbiology	✓		✓	✓
	ZC2063	Major Core X: Organic Evolution	✓		✓	
	ZC2064	Major Elective III: (a) Economic Zoology	✓	✓		
	ZC2065	(b) Sericulture/	✓		✓	
	ZC2066	(c) Aquaculture	✓		✓	✓
	ZC20P3	Major Practical III: Physiology & Biotechnology				
	ZC20P4	Major Practical IV: Ecology and Toxicology & Organic Evolution	✓		✓	✓
	ZC20P5	Major Practical V: Developmental Zoology & Immunology and Microbiology	✓		✓	✓
<b>Part IV</b>	ZSK206	*** Skill Enhancement Course (SEC): Vermitechnology	✓	✓		
<b>Part V</b>	FCV204	Foundation Course IV: Gender Equity Studies (GES)	✓	✓	✓	✓



**Item 07/BoS 02.12/09:** Classification of courses as Crosscutting Issues Gender Equity (GE) / Environment and Sustainability (EVS) / Human Values (HV)/ Professional Ethics (PE).

Part	Course Code	Courses	GE	EVS	HV	PE
<b>Part III</b>	ZC2051	Major Core V: Physiology	✓		✓	✓
	ZC2052	Major Core VI: Biotechnology		✓		✓
	ZC2053	Major Core VII: Ecology and Toxicology		✓	✓	
	ZC20P3	Major Practical III Physiology & Biotechnology		✓	✓	✓
	ZC20P4	Major Practical IV Ecology and Toxicology & Organic Evolution		✓		
<b>Part IV</b>	AEC201	Ability Enhancement Course (AEC): Environmental Studies		✓	✓	
<b>Part V</b>	FCV203	Foundation Course III: Human Rights Education	✓		✓	
<b>Part III</b>	ZC2061	Major Core VIII: Developmental Zoology	✓		✓	
	ZC2062	Major Core IX: Immunology and Microbiology		✓	✓	
	ZC2063	Major Core X: Organic Evolution		✓		
	ZC2064	Major Elective III: (a) Economic Zoology/		✓		✓
	ZC2065	(b) Sericulture/		✓		✓
	ZC2066	(c) Aquaculture		✓		✓
	ZC20P3	Major Practical III: Physiology & Biotechnology			✓	✓
	ZC20P4	Major Practical IV: Ecology and Toxicology & Organic Evolution			✓	✓
	ZC20P5	Major Practical V: Developmental Zoology & Immunology and Microbiology			✓	✓
<b>Part IV</b>	ZSK206	*** Skill Enhancement Course (SEC): Vermitechnology		✓		
<b>Part V</b>	FCV204	Foundation Course IV: Gender Equity Studies (GES)	✓		✓	

**Item 08/BoS 02.12/10:** Approval of recommendation of books and journals for UG and PG. The Board satisfied with the books, however asked to include the recent editions, wherever possible.

**Item 09/BoS 02.12/11: Approval of Feedback and action taken.**

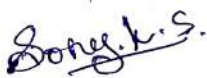
The Board analysed the feedback of the stakeholders and recommended to introduce new value-added courses and internship in V and VI semester of UG.



### Feedback Received and Action Taken on Curricular Aspects

Stakeholders	Feedback Received	Action Taken
Students	II PG student felt Endocrinology paper as heavy	Instead of endocrinology, the other option, "Forensic Biology" has been introduced
Parents	Demanded skill-oriented courses	Training on silkworm rearing, ornamental fish culture, apiculture was given.
Teachers	More entrepreneurial courses should be included.	Increased the number of courses.
Alumni	Demanded skill development courses. Internship can be provided from 2 <sup>nd</sup> year onwards.	Implemented
Academic Peer	Appreciated the syllabus	-

**Student feedback:** Students suggested to reduce the topics in the syllabus suggested to introduce skill-oriented courses like Forensic Biology.

Ms. K. S. Sony (PG) 

Ms. Agnel (UG) 

#### Item 10/BoS 02.12/12: Approval of Next Meeting of BoS

The Board finalized to fix the next Board on December, 2022

#### Item 11/BoS 02.12/13: Any other

The Board members appreciated the members of the department for their effort of having a new measure such as Staff forum, Student forum and Scholar forum which was approved by the board members. Under staff forum each month a programme will be organized under each category where two staff presenting papers to all students of UG and PG. Under student forum students will present an article of their interest and under scholar activity scholar will present one review article and a topic chosen from NET & SLET syllabus will be explained to all Students and scholars.

The external members also appreciated the conduction of seminars/ workshops in collaboration with Govt. agencies/ Universities/ NGOs.

**From**

Dr. SP. Sevarkodiyone  
Associate Professor and Head  
Department of Zoology (PG)  
Ayya Nadar Janaki Ammal College (Autonomous)  
Sivakasi – 626 124. Virudhunagar – Dist.

**To**

**The Principal**  
Holy Cross College, Nagercoil,  
Kanyakumari – Dist. Tamil Nadu.

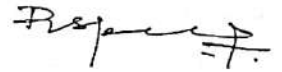
Dear Madam,

This is to certify that myself Dr. S.P. SEVARKODIYONE, Associate Professor of Zoology, ANJA COLLEGE, Sivakasi attended the Board of Studies meeting conducted by the Department of Zoology, Holy Cross College, Nagercoil, Kanyakumari District, Tamil Nadu, via Google meet, as ~~University Nominee~~/ Subject Expert/ ~~Industrialist~~/ ~~Alumna~~ on 2<sup>nd</sup> December, 2021.

Date: 15.02.2021

Place: Sivakasi

Yours sincerely,



**From**

**Dr. S. Mary Baptista Janet**  
Associate Professor of Zoology  
St.Mary's College(Autonomous)  
Thoothukudi

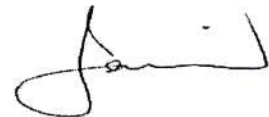
**To**

**The Principal**  
Holy Cross College, Nagercoil,  
Kanyakumari District, Tamil Nadu.

Dear Madam,

This is to certify that myself Dr. S. Mary Baptista Janet, Associate Professor of Zoology, St. Mary's College (Autonomous), Thoothukudi, attended the Board of Studies meeting conducted by the Department of Zoology, Holy Cross College (Autonomous), Nagercoil, Kanyakumari District, Tamil Nadu, via Google meet, as Alumna on 2<sup>nd</sup> December, 2021.

Sincerely,





From

Dr. K. Sabayaraj,  
Dept. of Zoology,  
St. Xavier's College,  
Palayamkottai-2

To

The Principal  
Holy Cross College, Nagercoil,  
Kanyakumari District, Tamil Nadu.

Dear Madam,

This is to certify that myself Dr. K. Sabayaraj, Associate Professor,  
Dept. of Zoology, St. Xavier's College, Palayamkottai

.....attended the Board of Studies

meeting conducted by the Department of Zoology Holy Cross College,

Nagercoil, Kanyakumari District, Tamil Nadu, via Google meet, as University Nominee/ Subject

Expert/ Industrialist/ Alumna on 2<sup>nd</sup> December, 2021.



Sincerely,

(K. SABAYARAJ)

From

V. Robin Perinba Smith

Head, Department of Zoology

Nagercoil, Kanyakumari District, Tamil Nadu

To

**The Principal**

Holy Cross College, Nagercoil,

Kanyakumari District, Tamil Nadu.

Dear Madam,

This is to certify that myself Dr.V. Robin Perinba Smith, Head, Department of Zoology Scott Christian College Nagercoil 629 003 attended the Board of Studies meeting conducted by the Department of Zoology, Holy Cross College, Nagercoil, Kanyakumari District, Tamil Nadu, via Google meet, as University Nominee/ Subject Expert/ Industrialist/ Alumna on 2<sup>nd</sup> December, 2021.

Sincerely

V Smith

V. Robin Perinba Smith,)

**From**

Dr. Ariharan VN  
CEO & Lead Research Scientist,  
Biomeitez Research and Development Pvt Ltd.  
Saral, Kanniyakumari District

**To**

The Principal,  
Holy Cross College, Nagercoil  
Kanniyakumari District










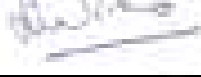



Dear Madam

This is to certify that myself Dr. Ariharan VN, CEO & Lead Research Scientist, Biomeitez Research and Development Pvt Ltd., attended the Board of Studies meeting conducted by the Department of Zoology, Holy Cross College, Nagercoil, Kanyakumari District, Tamil Nadu, via Google meet, as ~~University Nominee /Subject Expert/ Alumna~~ on 2<sup>nd</sup> December, 2021.



Sincerely,



Name of the Members	Designation	Signature
Dr. F. Brija Renuga, Associate Professor	Chairperson & HoD	
Dr. Sahaya Raj, Associate Professor, St. Xavier's College, Palayamkottai, Tirunelveli.	Subject Expert	
V. Robin Perinba Smith Head, Department of Zoology, Scott Christian College, Nagercoil, Kanyakumari District, Tamil Nadu	Subject Expert	
Dr. S. Mary Baptista Janet, Associate Professor of Zoology, St. Mary's College (Autonomous), Thoothukudi.	Alumnae	
Dr. Ariharan VN, CEO & Lead Research Scientist Biomeitez Research and Development Pvt Ltd. SaraI, Kanyakumari District	Industrialist	
Dr. S. Mary Mettilda Bai, Assistant Professor	Member	
Dr. J. Vinoliya Josephine Mary, Assistant Professor	Member	
Dr. A. Shyla Suganthi, Assistant Professor	Member	
Dr. P.T. Arokya Glory, Assistant Professor	Member	
Dr. Jeni Chandar Padua, Assistant Professor	Member	
Dr. A. Punitha, Assistant Professor	Member	
Dr. X. Venci Candida, Assistant Professor	Member	
Dr. S. Prakash Shoba, Assistant Professor	Member	
Dr. C. Anitha, Assistant Professor	Member	