



## ISLAMIAH WOMEN'S ARTS AND SCIENCE COLLEGE

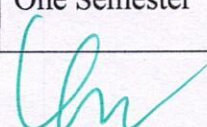
Permanently Affiliated to Thiruvalluvar University  
Recognized by UGC under sections 2(f) and 12(B) of the UGC Act 1956  
Accredited with "B" Grade by NAAC  
Approved by the Government of Tamil Nadu  
Phone: 04174-235266 Email: principalwac@gmail.com  
www.islamiahwomensartsandsciencecollege.com

### Project Details 2022 2023

Program Name: B.Sc Zoology – Program Code: U33

S.No	List Of Students	Project Title	Place Of Work	Duration
1	Aaliya Thamreen A	Ovis Aries Blood and Excreta Parasite of Veterinary and Zoonotic Importance	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester
2	Abinaya D	Isolation and Identification of Bacteria from Drinking Water Sources of Bos Taurus	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester
3	Amreen A	Histological Methods in the Assessment of Effects on Liver, Intestine & Tissues of Oreochromis Mossambicus.	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester
4	Amrin Banu T	Felis Catus Model of External Traumatic Wound Infection, Isolation, and Identification of Bacteria	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester
5	Asfiya Tabassum M S	Oryctolagus Cuniculus Blood and Excreta Parasites of Veterinary and Zoonotic Importance	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester
6	Athira Aimen T	Isolation and Identification of Bacteria from Drinking Water Sources of Oryctolagus Cuniculus	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester
7	Athufa Yusra E	Histological Methods in the assesment of Effects on Liver, Intestine, and Tissue of Pampus Argenteus.	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester
8	Deepika S	Ovis Aries Models of External Traumatic Wound Infection, Isolation, and Identification of Bacteria	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester

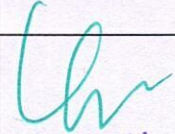


  
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9	Fathima Bathool P.A	Columba Livia, Blood and Excreta Parasites of Veterinary And Zoonotic Importance	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester
10	Ghousiya Roohi Nizami M	Isolation and Identification of Bacteria from Drinking Water Sources of Ovis Aries	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester
11	Janani S	Histological Methods in the Assessment of Effects on Liver, Intestine and Tissues Of Labeo Rohita.	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester
12	Jhansi M	Bos Taurus Models of External Traumatic Wound Infection, Isolation, and Identification of Bacteria	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester
13	Madhumitha K	Gallus Gallus Domesticus Blood and Excreta Parasites of Veterinary and Zoonotic Importance	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester
14	Misra T.S	Isolation and Identification of Bacteria from Drinking Water Sources of Columba Livia	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester
15	Nusaiba Kulsoom K I	Histological Methods in the Assessment of Effects on Liver, Intestine and Tissues Of Labeo Catla.	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester
16	Priyadharshini S	Gallus Gallus Domesticus, Model of External Traumatic Wound Infection, Isolation, and Identification of Bacteria	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester
17	Rupika V	Canis Lupus Familiaris, Blood and Excreta Parasites of Veterinary and Zoonotic Importance	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester
18	Salma Suha A.P	Isolation and Identification of Bacteria from Drinking Water Sources of Gallus Gallus Domesticus	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester
19	Sandhiya T	Histological Methods in the Assessment of Effects on Liver, Intestine, and Tissues of Channa Striata .	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester
20	Sangeetha P	Capra Hircus Models of External Traumatic Wound Infection, Isolation, and Identification of Bacteria	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester

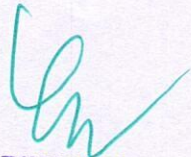


  
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21	Sharifa Naaz K	Capra Hircus, Blood and Excreta Parasites of Veterinary and Zoonotic Importance	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester
22	Shiza Harmeen R	Isolation and Identification of Bacteria from Drinking Water Sources of Capra Hircus	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester
23	Unaiza Mariyam M.P	Histological Methods in the Assesment of Effects on Liver, Instestine, and Tissues of Plotosus Canius.	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester
24	Vasanthi U	Canis Lupus Familiaris Models of External Traumatic Wound Infection, Isolation, and Identification of Bacteria	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester
25	Yuvasri P	Bos Taurus, Blood and Excreta Parasites of Veterinary and Zoonotic Importance	Islamiah Women's Arts And Science College	1.2.2023 to 12.5.2023 One Semester



  
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# THIRUVALLUVAR UNIVERSITY

## BACHELOR OF SCIENCE

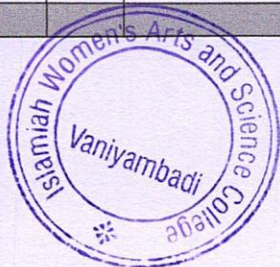
### B.Sc. ZOOLOGY

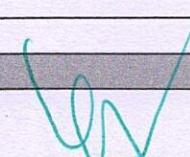
#### DEGREE COURSE

(With effect from 2020 - 2021)

#### The Course of Study and the Scheme of Examinations

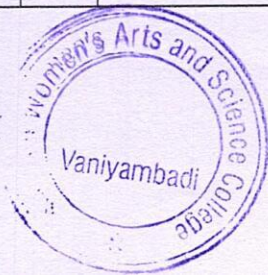
S. No.	Part	Study Components		Ins. Hrs / week	Credit	Title of the Paper	Maximum Marks		
		Course Title					CIA	Uni. Exam	Total
<b>SEMESTER I</b>									
1.	I	Language	Paper-1	6	4	Tamil/Other Languages	25	75	100
2.	II	English (CE)	Paper-1	6	4	<b>Communicative English I</b>	25	75	100
3.	III	Core Theory	Paper-1	6	4	Invertebrata	25	75	100
	III	Core Practical	Practical-1	4	0	Invertebrata and chordata	0	0	0
4.	III	Allied -1	Paper-1	4	3	(To choose 1 out of 3) 1. Chemistry – I 2. Botany – I 3. Economic Entomology – I	25	75	100
	III	Allied- 1	Practical-1	2	0		0	0	0
5.	III	<b>PE</b>	<b>Paper 1</b>	<b>6</b>	<b>3</b>	<b>Professional English I</b>	<b>25</b>	<b>75</b>	<b>100</b>
6.	IV	Environmental Studies		2	2	Environmental studies	25	75	100
		<b>Sem. Total</b>		<b>36</b>	<b>20</b>		<b>150</b>	<b>450</b>	<b>600</b>
<b>SEMESTER II</b>									
7.	I	Language	Paper-2	6	4	Tamil/Other Languages	25	75	100
8.	II	English (CE)	Paper-2	6	4	<b>Communicative English II</b>	25	75	100
9.	III	Core Theory	Paper-2	5	4	Chordata	25	75	100
10.	III	Core Practical	Practical-1	3	2	Invertebrata and chordata	25	75	100
11.	III	Allied-1	Paper-2	4	3	(To choose 1 out of 3) 1. Chemistry II 2. Botany II 3. Economic Entomology II	25	75	100
12.	III	Allied Practical - 1	Practical-1	2	2		25	75	100
13.	III	<b>PE</b>	<b>Paper 1</b>	<b>6</b>	<b>3</b>	<b>Professional English II</b>	25	75	100
14.	IV	Value Education		2	2		25	75	100
15.	IV	Soft Skill		2	1		25	75	100
		<b>Sem. Total</b>		<b>36</b>	<b>25</b>		<b>225</b>	<b>675</b>	<b>900</b>



  
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SEMESTER III						CIA	Uni. Exam	Total	
16.	I	Language	Paper-3	6	4	Tamil/Other Languages	25	75	100
17.	II	English	Paper-3	6	4	English	25	75	100
18.	III	Core Theory	Paper-3	4	4	Cell and molecular Biology	25	75	100
	III	Core Practical	Practical- II	3	0	Cell and molecular Biology	0	0	0
19.	III	Allied-2	Paper-3	4	3	(To choose 1 out of 3) 1. Chemistry - I 2. Botany - I 3. Economic Entomology - I	25	75	100
		Allied Practical - 2	Practical-2	3	0		0	0	0
20.	IV	Skill Based Subject	Paper-1	2	2	(To choose 1 out of 2) 1.Vermiculture 2. Single Cell Protein Culture	25	75	100
21.	IV	Non-Major Elective	Paper-1	2	2	(To choose 1 out of 2) 1.Public Health and Hygiene 2.Poultry Farming	25	75	100
<b>Sem. Total</b>				<b>30</b>	<b>19</b>		<b>150</b>	<b>450</b>	<b>600</b>
SEMESTER IV						CIA	Uni. Exam	Total	
22.	I	Language	Paper-4	6	4	Tamil/Other Languages	25	75	100
23.	II	English	Paper-4	6	4	English	25	75	100
24.	III	Core Theory	Paper-4	4	4	Genetics and Biotechnology	25	75	100
25.	III	Core Practical	Practical-2	3	3	Cell and molecular Biology and Genetics and Biotechnology	25	75	100
26.	III	Allied-2	Paper-4	4	3	(To choose 1 out of 3) 1. Chemistry II 2. Botany II 3. Economic Entomology II	25	75	100
27.	III	Allied Practical - 2	Practical-2	3	2		25	75	100
28.	IV	<b>NMSDC : Digital Skills for Employability</b>	<b>Paper-2</b>	<b>2</b>	<b>2</b>	<b>Office Fundamentals</b>	<b>25</b>	<b>75</b>	<b>100</b>
29.	IV	Non-Major Elective	Paper-2	2	2	(To choose 1 out of 2) 1. Bio-Fertilizer Production 2. Aquarium Fish keeping	25	75	100
<b>Sem. Total</b>				<b>30</b>	<b>24</b>		<b>200</b>	<b>600</b>	<b>800</b>
SEMESTER V						CIA	Uni. Exam	Total	
30.	III	Core Theory	Paper-5	6	6	Bio-Statistics and Bio-Informatics	25	75	100
	III	Core Practical	Practical-3	3	0	Bio-Statistics and Bio-Informatics Developmental Biology and Immunology Animal Physiology	0	0	0
31.	III	Core Theory	Paper-6	6	6	Developmental Biology and Immunology	25	75	100





		Core Practical	Practical-4	3	0	Environmental Biology Economic Zoology	0	0	0
32.	III	Core Theory	Paper-7	6	5	Animal Physiology	25	75	100
33.	III	Internal Elective	Paper-1	3	3	(To choose 1 out of 2) 1. Nano Technology in Life Sciences 2. Human Endocrinology	25	75	100
34.	IV	Skill Based Subject	Paper-3	3	2	(To choose 1 out of 2) 1. Animal Behavior 2. Vegetable Meat Culture	25	75	100
		<b>Sem. Total</b>		<b>30</b>	<b>22</b>		<b>125</b>	<b>375</b>	<b>500</b>
<b>SEMESTER VI</b>							<b>CIA</b>	<b>Uni. Exam</b>	<b>Total</b>
35.	III	Core Theory	Paper-8	5	5	Environmental Biology	25	75	100
36.	III	Core Theory	Paper-9	5	5	Economic Zoology	25	75	100
37.	III	Core Practical	Practical-3	3	3	Bio-Statistics and Bio-Informatics Developmental Biology and Immunology Animal Physiology	25	75	100
38.	III	Core Practical	Practical-4	3	3	Environmental Biology Economic Zoology	25	75	100
39.	III	Compulsory Project	Paper-10	5	5	Individual / Group Project	25	75	100
40.	III	Internal Elective	Paper-2	3	3	(To choose 1 out of 2) 1. Evolution 2. Microbiology	25	75	100
41.	III	Internal Elective	Paper-3	3	3	(To choose 1 out of 2) 1. Bio Chemistry 2. Applied Entomology	25	75	100
42.	IV	Skill based Subject	Paper-4	3	2	(To choose 1 out of 2) 1. Medical Lab Technology 2. Industrial Fishery Management	25	75	100
43.	V	Extension Activities		0	1		100	0	100
44.		<b>NMSDC : Employability Readiness</b>				<b>(choose any one)</b> • Naandi • Unnati • Quest • Izpay • IBM Skills build			
		<b>Sem. Total</b>		<b>30</b>	<b>30</b>		<b>300</b>	<b>600</b>	<b>900</b>
					140				<b>4300</b>







ISLAMIAH WOMEN'S ARTS & SCIENCE COLLEGE

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Newtown, Vaniyambadi, Tirupattur – 635 752.  
Email ID: principaliwc@gmail.com

DEPARTMENT OF ZOOLOGY

APRIL-MAY - 2023

**CERTIFICATE**

This is to certify that the project entitled “**Ovis aries, blood and excreta parasites of veterinary and zoonotic importance**” submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by **A. AALIYA THAMREEN (Reg. No.:31220U33001)** in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance **Mrs. N. KALPANA, M. Sc., M. Phil., M. Ed.**, It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

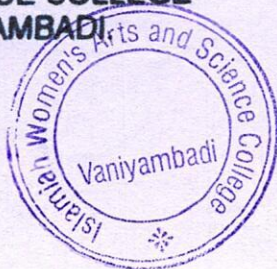
Signature of the Guide Supervisor

Signature of the H.O.D

Submitted for Viva-Voce Examination held on 12.05.23

Internal Examiner

HEAD OF THE DEPARTMENT  
DEPARTMENT OF ZOOLOGY  
ISLAMIAH WOMEN'S ARTS  
AND SCIENCE COLLEGE  
VANIYAMBADI



25

External Examiner

**Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D.,**  
Assistant Professor & Research Supervisor,  
PG & Research Dept. of Zoology,  
Voorhees College, Vellore - 1.  
M.No. 7397641860  
E-mail : job.gopinath@gmail.com

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Email ID: principaliwc@gmail.com

**DEPARTMENT OF ZOOLOGY**

**APRIL-MAY - 2023**

**CERTIFICATE**

This is to certify that the project entitled “Isolation and identification of bacteria from drinking water sources of *Bos taurus*” submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by **D. ABINAYA (Reg. No.:31220U33002)** in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance **Dr. A. RAGAMATH BEE, M. Sc., M. Phil., Ph.D.**, It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

*A. Ragamath Bee*  
Signature of the Guide Supervisor

*[Handwritten Signature]*  
Signature of the H.O.D

Submitted for Viva-Voce Examination held on 12.05.2023

*[Handwritten Signature]*  
Internal Examiner  
**HEAD OF THE DEPARTMENT  
DEPARTMENT OF ZOOLOGY  
ISLAMIAH WOMEN'S ARTS  
AND SCIENCE COLLEGE  
VANIYAMBADI.**

*[Handwritten Signature]*  
**PRINCIPAL  
ISLAMIAH WOMEN'S ARTS  
AND SCIENCE COLLEGE  
VANIYAMBADI**

*[Handwritten Signature]*  
External Examiner  
12/5/23

**Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D.**  
Assistant Professor & Research Supervisor,  
PG & Research Dept. of Zoology,  
Voorhees College, Vellore - 1.  
M.No. 7397641860  
E-mail : job.gopinath@gmail.com





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Email ID: principaliw@gmail.com

DEPARTMENT OF ZOOLOGY

APRIL-MAY - 2023

**CERTIFICATE**

This is to certify that the project entitled “**Histological methods in the assessment of effects on liver, intestine and tissue of Oreochromis mossambicus**” submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by **A. AMREEN** (Reg. No.:31220U33004) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance **Dr. C. SANDHYA, M. Sc., M. Phil., Ph.D.**, It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

*C. Sandhya*

Signature of the Guide Supervisor

*[Signature]*

Signature of the H.O.D

Submitted for Viva-Voce Examination held on 12.05.2023

*[Signature]*  
Internal Examiner

HEAD OF THE DEPARTMENT  
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ISLAMIAH WOMEN'S ARTS  
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*[Signature]*  
-PRINCIPAL  
ISLAMIAH WOMEN'S  
ARTS AND SCIENCE COLLEGE  
VANIYAMBADI.

2

*[Signature]*  
External Examiner

Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D.,  
Assistant Professor & Research Supervisor,  
PG & Research Dept. of Zoology,  
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**DEPARTMENT OF ZOOLOGY**

**APRIL-MAY - 2023**

**CERTIFICATE**

This is to certify that the project entitled “**Felis catus, model of external traumatic wound infection, isolation, and identification of bacteria**” submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by **T. AMRIN BANU (Reg. No: 31220U33005)** in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance **Ms. S. SOWMIYA M.Sc.**, It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the Guide Supervisor

Signature of the H.O.D

Submitted for Viva-Voce Examination held on 12.05.2023

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VANIYAMBADI.**

**External Examiner** 12/5/23

**Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D.,**  
Assistant Professor & Research Supervisor,  
PG & Research Dept. of Zoology,  
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**Email ID: [principalwc@gmail.com](mailto:principalwc@gmail.com)**

**DEPARTMENT OF ZOOLOGY**

**APRIL-MAY - 2023**

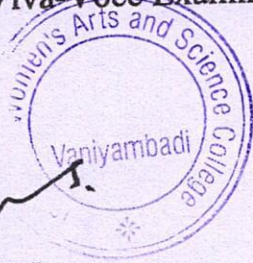
**CERTIFICATE**

This is to certify that the project entitled "**Oryctolagus cuniculus, blood and excreta parasites of veterinary and zoonotic importance**" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by **M. S. ASFIYA TABASSUM (Reg. No.:31220U33006)** in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance **Mrs. N. KALPANA, M. Sc., M. Phil., M. Ed.**, It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the Guide Supervisor

Signature of the H.O.D

Submitted for Viva-Voce Examination held on 12.05.23



Internal Examiner

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VANIYAMBADI.**

**PRINCIPAL  
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VANIYAMBADI**

  
1215723

External Examiner

**Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D.,**  
Assistant Professor & Research Supervisor,  
PG & Research Dept. of Zoology,  
Voorhées College, Vellore - 1.  
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Email ID: [principaliwc@gmail.com](mailto:principaliwc@gmail.com)

**DEPARTMENT OF ZOOLOGY**

**APRIL-MAY - 2023**

**CERTIFICATE**

This is to certify that the project entitled “Isolation and identification of bacteria from drinking water sources of *Oryctolagus cuniculus*” submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by **T. ATHIRA AIMEN (Reg. No.:31220U33007)** in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance **Dr. A. RAGAMATH BEE, M. Sc., M. Phil., Ph.D.**, It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

*A. Ragamath*

Signature of the Guide Supervisor

*[Signature]*

Signature of the H.O.D

Submitted for Viva-Voce Examination held on 12-05-2023

*[Signature]*  
HEAD OF THE DEPARTMENT  
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VANIYAMBADI.

*[Signature]*  
External Examiner  
12/5/23

Dr. M. JOE GOPINATH, M.Sc., M.Phil., Ph.D.  
Assistant Professor & Research Supervisor,  
PGR & Research Dept. of Zoology,  
Vandaveyil College, Vellore - 1.  
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E-mail: [joegopinath@gmail.com](mailto:joegopinath@gmail.com)





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Email ID: principaliwca@gmail.com

DEPARTMENT OF ZOOLOGY

APRIL-MAY - 2023

**CERTIFICATE**

This is to certify that the project entitled "**Histological methods in the assessment of effects on liver, intestine and tissue of Pampus argenteus**" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by **E. ATHUFA YUSRA (Reg. No.:31220U33008)** in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance **Dr. C. SANDHYA, M. Sc., M. Phil., Ph.D.**, It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

*C. Sandhya*

Signature of the Guide Supervisor

*Kulso*

Signature of the H.O.D

Submitted for Viva-Voce Examination held on 12.05.2023



*Kulso*

Internal Examiner

THE DEPARTMENT  
OF ZOOLOGY  
ISLAMIAH WOMEN'S ARTS  
AND SCIENCE COLLEGE  
VANIYAMBADI.

*Job Gopinath*

PRINCIPAL  
ISLAMIAH WOMEN'S ARTS  
AND SCIENCE COLLEGE  
VANIYAMBADI.

*M. Job Gopinath*  
12/5/23  
External Examiner

Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D.  
Assistant Professor & Research Supervisor,  
PG & Research Dept. of Zoology,  
Voorhees College, Vellore - 1.  
M.No. 7397641860  
E-mail : job.gopinath@gmail.com





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**Newtown, Vaniyambadi, Tirupattur – 635 752.**

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**DEPARTMENT OF ZOOLOGY**

**APRIL-MAY - 2023**

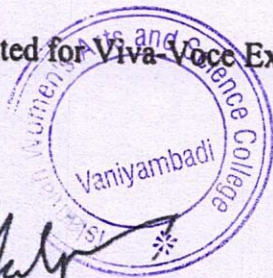
**CERTIFICATE**

This is to certify that the project entitled **Ovis aries, model of external traumatic wound infection, isolation, and identification of bacteria** submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by **S. DEEPIKA** (Reg. No: 31220U33009) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance **Ms. S. SOWMIYA M.Sc.**, It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the Guide Supervisor

Signature of the H.O.D

Submitted for Viva-Voce Examination held on 12/05/2023



Internal Examiner

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**PRINCIPAL  
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VANIYAMBADI.**

  
12/5/23

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**Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D.,**  
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**DEPARTMENT OF ZOOLOGY**

**APRIL-MAY - 2023**

**CERTIFICATE**

This is to certify that the project entitled “*Columba livia*, blood and excreta parasites of veterinary and zoonotic importance” submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by **P. A. FATHIMA BATHOOL (Reg. No.:31220U33011)** in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance **Mrs. N. KALPANA, M. Sc., M. Phil., M. Ed.**, It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the Guide Supervisor

Signature of the H.O.D

Submitted for Viva-Voce Examination held on 12.05.23

**Internal Examiner**  
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**AND SCIENCE COLLEGE**  
**VANIYAMBADI.**

**PRINCIPAL**  
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**AND SCIENCE COLLEGE**  
**VANIYAMBADI.**

**External Examiner**

**Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D.,**  
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PG & Research Dept. of Zoology,  
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**DEPARTMENT OF ZOOLOGY**

**APRIL-MAY - 2023**

**CERTIFICATE**

This is to certify that the project entitled “**Isolation and identification of bacteria from drinking water sources of Ovis aries**” submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by **M. GHOSIYA ROOHI NIZAMI (Reg. No.:31220U33012)** in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance **Dr. A. RAGAMATH BEE, M. Sc., M. Phil., Ph.D.**, It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

*A. Ragamath*

Signature of the Guide Supervisor

*[Signature]*

Signature of the H.O.D

Submitted for Viva-Voce Examination held on 12.05.2023

*[Signature]*  
Internal Examiner

**HEAD OF THE DEPARTMENT  
DEPARTMENT OF ZOOLOGY  
ISLAMIAH WOMEN'S ARTS  
AND SCIENCE COLLEGE**

*[Signature]*  
External Examiner

**Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D.,**  
Assistant Professor & Research Supervisor,  
PG & Research Dept of Zoology,  
Voorhees College, Vellore - 1.  
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**DEPARTMENT OF ZOOLOGY**

**APRIL-MAY - 2023**

**CERTIFICATE**

This is to certify that the project entitled “**Histological methods in the assessment of effects on liver, intestine and tissue of Labeo rohita**” submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by **S. JANANI (Reg. No.:31220U33013)** in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance **Dr. C. SANDHYA, M. Sc., M. Phil., Ph.D.**, It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

*C. Sandhya*

Signature of the Guide Supervisor

*[Signature]*

Signature of the H.O.D

Submitted for Viva-Voce Examination held on 12.05.2023

*[Signature]*  
Internal Examiner  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF ZOOLOGY  
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AND SCIENCE COLLEGE  
VANIYAMBADI.

*[Signature]*  
External Examiner  
12/5/23  
PRINCIPAL  
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VANIYAMBADI  
Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D.,  
Assistant Professor & Research Supervisor,  
PG & Research Dept. of Zoology,  
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M.No. 7397641860  
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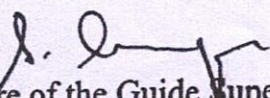
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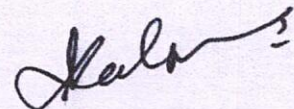
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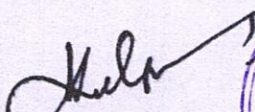
**CERTIFICATE**

This is to certify that the project entitled “**Bos taurus, model of external traumatic wound infection, isolation, and identification of bacteria**” submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by **M. JHANSI (Reg. No.:31220U33014)** in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance **Ms. S. SOWMIYA M.Sc.**, It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

  
Signature of the Guide Supervisor

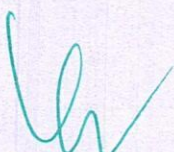
  
Signature of the H.O.D

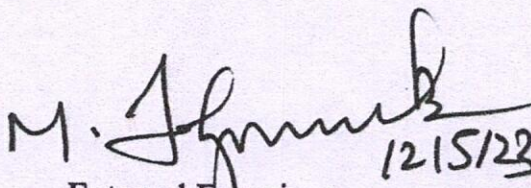
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Internal Examiner

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**PRINCIPAL  
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External Examiner 12/5/23

**Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D.,**  
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**Email ID: principaliwc@gmail.com**

**DEPARTMENT OF ZOOLOGY**

**APRIL-MAY - 2023**

**CERTIFICATE**

This is to certify that the project entitled “**Gallus gallus domesticus, blood and excreta parasites of veterinary and zoonotic importance**” submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by **K. MADHUMITA (Reg. No.:31220U33017)** in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance **Mrs. N. KALPANA, M. Sc., M. Phil., M. Ed.**, It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the Guide Supervisor

Signature of the H.O.D

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**Internal Examiner**  
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**VANIYAMBADI**

**External Examiner**

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Assistant Professor & Research Supervisor,  
PG & Research Dept. of Zoology,  
Voorhees College, Vellore - 1.  
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**DEPARTMENT OF ZOOLOGY**

**APRIL-MAY - 2023**

**CERTIFICATE**


This is to certify that the project entitled "Isolation and identification of bacteria from drinking water sources of *Columba livia*" submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by **T. S. MISRA (Reg. No.:31220U33018)** in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance **Dr. A. RAGAMATH BEE, M. Sc., M. Phil., Ph.D.**, It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

*A. Ragamath*  
Signature of the Guide Supervisor

*[Handwritten Signature]*  
Signature of the H.O.D

Submitted for Viva-Voce Examination held on 12.05.23

*[Handwritten Signature]*  
Internal Examiner



*[Handwritten Signature]*  
External Examiner

**Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D.**  
Assistant Professor & Research Supervisor,  
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**DEPARTMENT OF ZOOLOGY**

**APRIL-MAY - 2023**

**CERTIFICATE**

This is to certify that the project entitled “**Histological methods in the assessment of effects on liver, intestine and tissue of Labeo catla**” submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by **K. I. NUSAIBA KULSOOM (Reg. No.:31220U33019)** in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance **Dr. C. SANDHYA, M. Sc., M. Phil., Ph.D.**, It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

*C. Sandhya*

Signature of the Guide Supervisor

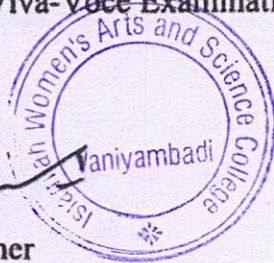
*[Signature]*

Signature of the H.O.D

Submitted for Viva-Voce Examination held on 12.05.2023

*[Signature]*  
Internal Examiner

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*[Signature]*

External Examiner

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**Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D.**  
Assistant Professor & Research Supervisor,  
PG & Research Dept. of Zoology,  
Voorhees College, Vellore - 1.  
M.No. 7397641860  
E-mail: job.gopinath@gmail.com





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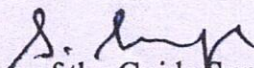
Email ID: [principaliwc@gmail.com](mailto:principaliwc@gmail.com)

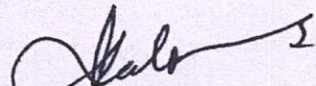
DEPARTMENT OF ZOOLOGY

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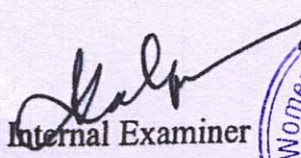
**CERTIFICATE**

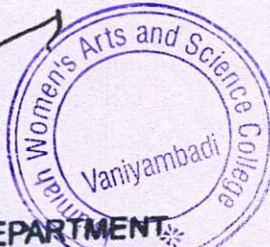
This is to certify that the project entitled “**Gallus gallus domesticus, model of external traumatic wound infection, isolation, and identification of bacteria**” submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by **S. PRIYADHARSHINI (Reg. No.:31220U33020)** in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance **Ms. S. SOWMIYA M.Sc.**, It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

  
Signature of the Guide Supervisor

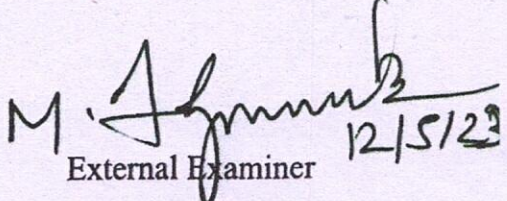
  
Signature of the H.O.D

Submitted for Viva-Voce Examination held on 12.05.2023

  
Internal Examiner



**HEAD OF THE DEPARTMENT,  
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External Examiner 12/5/23

  
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VANIYAMBADI

**Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D.,**  
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PG & Research Dept. of Zoology,  
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**Email ID: principaliwc@gmail.com**

**DEPARTMENT OF ZOOLOGY**

**APRIL-MAY - 2023**

**CERTIFICATE**

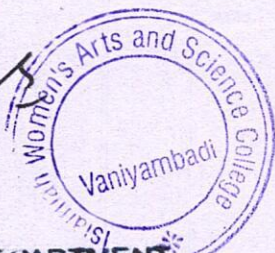
This is to certify that the project entitled “**Canis lupus familiaris, blood and excreta parasites of veterinary and zoonotic importance**” submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by **V. RUPIKA** (Reg. No.:31220U33021) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance **Mrs. N. KALPANA, M. Sc., M. Phil., M. Ed.**, It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the Guide Supervisor

Signature of the H.O.D

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External Examiner

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12/5/23





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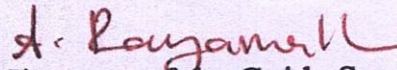
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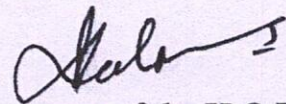
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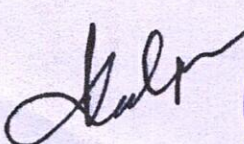
**CERTIFICATE**

This is to certify that the project entitled “**Isolation and identification of bacteria from drinking water sources of Gallus gallus domesticus**” submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by **A. P. SALMA SUHA (Reg. No.:31220U33022)** in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance **Dr. A. RAGAMATH BEE, M. Sc., M. Phil., Ph.D.**, It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

  
Signature of the Guide Supervisor

  
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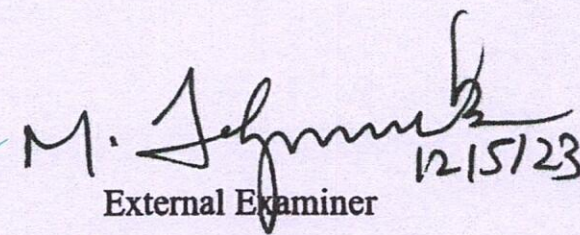
  
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**DEPARTMENT OF ZOOLOGY**

**APRIL-MAY - 2023**

**CERTIFICATE**

This is to certify that the project entitled “**Histological methods in the assessment of effects on liver, intestine and tissue of Channa striata**” submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by **T. SANDHIYA** (Reg. No.:31220U33023) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance **Dr. C. SANDHYA, M. Sc., M. Phil., Ph.D.**, It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

*C. Sandhya*

Signature of the Guide Supervisor

*[Signature]*

Signature of the H.O.D

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*[Signature]*  
Internal Examiner

DEPARTMENT OF ZOOLOGY  
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PG & Research Dept of Zoology,  
Voorhees College, Vellore - 1.  
M.No. 7397641860  
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**ISLAMIAH WOMEN'S ARTS & SCIENCE COLLEGE**

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Newtown, Vaniyambadi, Tirupattur – 635 752.

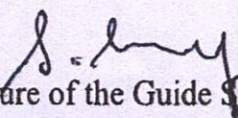
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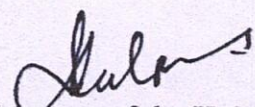
**DEPARTMENT OF ZOOLOGY**

**APRIL-MAY - 2023**

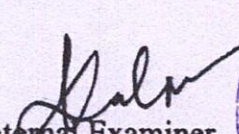
**CERTIFICATE**

This is to certify that the project entitled “**Capra hircus, model of external traumatic wound infection, isolation, and identification of bacteria**” submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by **P. SANGEETHA (Reg. No.:31220U33024)** in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance **Ms. S. SOWMIYA M.Sc.**, It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

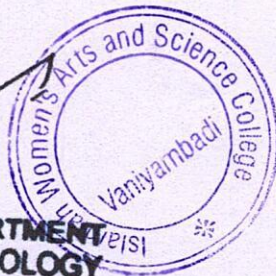
  
Signature of the Guide Supervisor

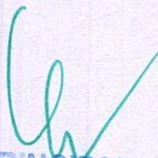
  
Signature of the H.O.D

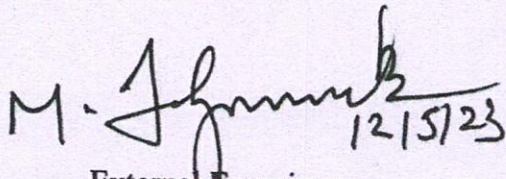
Submitted for Viva-Voce Examination held on 12.5.2023

  
Internal Examiner

**HEAD OF THE DEPARTMENT  
DEPARTMENT OF ZOOLOGY  
ISLAMIAH WOMEN'S ARTS  
AND SCIENCE COLLEGE  
VANIYAMBADI.**



  
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VANIYAMBADI.**

  
External Examiner

**Dr. M. JOB GOPINATH, M.Sc., M.Phil., Ph.D.,**  
Assistant Professor & Research Supervisor,  
PG & Research Dept. of Zoology,  
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Email ID: [principaliwc@gmail.com](mailto:principaliwc@gmail.com)

## DEPARTMENT OF ZOOLOGY

APRIL-MAY - 2023

### CERTIFICATE

This is to certify that the project entitled “*Capra hircus*, blood and excreta parasites of veterinary and zoonotic importance” submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by **K. SHARIFA NAAZ** (Reg. No.:31220U33025) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance Mrs. N. KALPANA, M. Sc., M. Phil., M. Ed., It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the Guide Supervisor

Signature of the H.O.D

Submitted for Viva-Voce Examination held on 12.05.23

Internal Examiner

**HEAD OF THE DEPARTMENT  
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ISLAMIAH WOMEN'S ARTS  
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VANIYAMBADI**

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12/5/23  
External Examiner

**Dr. M. JOB GOPINATH**, M.Sc., M.Phil., Ph.D.,  
Assistant Professor & Research Supervisor,  
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**Email ID: principaliwc@gmail.com**

**DEPARTMENT OF ZOOLOGY**

**APRIL-MAY - 2023**

**CERTIFICATE**

This is to certify that the project entitled “Isolation and identification of bacteria from drinking water sources of *Capra hircus*” submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by **R. SHIZA HARMEEN** (Reg. No.:31220U33026) in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance **Dr. A. RAGAMATH BEE, M. Sc., M. Phil., Ph.D.**, It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

*Dr. A. Ragamath*  
Signature of the Guide Supervisor

*[Signature]*  
Signature of the H.O.D

Submitted for Viva-Voce Examination held on 12/05/2023

*[Signature]*  
Internal Examiner



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*[Signature]*  
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*[Signature]*  
External Examiner

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**Email ID: principaliwc@gmail.com**

**DEPARTMENT OF ZOOLOGY**

**APRIL-MAY - 2023**

**CERTIFICATE**

This is to certify that the project entitled “**Histological methods in the assessment of effects on liver, intestine and tissue of *Plotosus canius***” submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by **M. P. UNAIZA MARIYAM (Reg. No.:31220U33027)** in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance **Dr. C. SANDHYA, M. Sc., M. Phil., Ph.D.**, It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

*C. Sandhya*

Signature of the Guide Supervisor

*[Signature]*

Signature of the H.O.D

Submitted for Viva-Voce Examination held on 12.5.2023

*[Signature]*  
Internal Examiner



*[Signature]*  
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*[Signature]*  
External Examiner  
12/5/23

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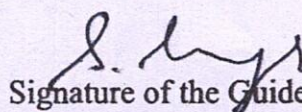
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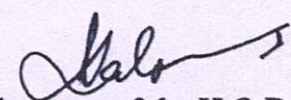
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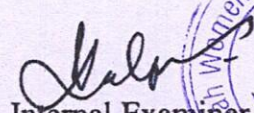
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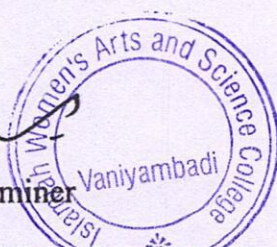
This is to certify that the project entitled “**Canis lupus familiaris, model of external traumatic wound infection, isolation, and identification of bacteria**” submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by **U. VASANTHI (Reg. No.:31220U33028)** in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance **Ms. S. SOWMIYA M.Sc.**, It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

  
Signature of the Guide Supervisor

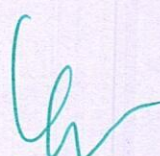
  
Signature of the H.O.D

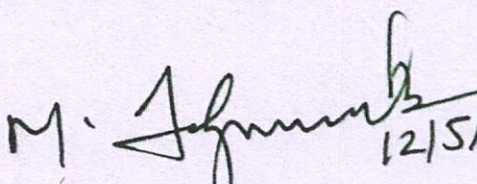
Submitted for Viva-Voce Examination held on 12.05.2023

  
Internal Examiner



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External Examiner

12/5/23

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Email ID: principaliwc@gmail.com

DEPARTMENT OF ZOOLOGY

APRIL-MAY - 2023

**CERTIFICATE**

This is to certify that the project entitled “**Bos taurus, blood and excreta parasites of veterinary and zoonotic importance**” submitted to the Department of Zoology, Islamiah Women Arts and Science College, Vaniyambadi by **P. YUVASRI (Reg. No.:31220U33029)** in partial fulfillment of the requirement for the award of the Degree of Bachelor of Science a bonafide record of work carried out by the candidate under my Guidance **Mrs. N. KALPANA, M. Sc., M. Phil., M. Ed.**, It has not formed on the basis for the award of any Degree, Diploma, Associate ship, Fellowship or other similar title of any University or Institution.

Signature of the Guide Supervisor

Signature of the H.O.D

Submitted for Viva-Voce Examination held on 12.05.23

  
Internal Examiner  

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External Examiner  
12/5/23

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