

From  
The Head  
PG & Research Department of Zoology  
Sri Vasavi College  
Erode 638 316

To  
Controller of Examinations  
Bharathiar University  
Coimbatore-641 046

Through  
The Principal  
Sri Vasavi College  
Erode 638 316

Respected Sir,

**Sub: Discrepancy in the external marks allotted in the Scheme of Examination and distribution of marks indicated in the syllabus for III B.Sc., Zoology – Elective course III: Practical- Poultry Science and Management - intimating reg.**

Ref: III B.Sc. Zoology – revised scheme-Colleges- 2018-19 onwards  
Annexure No.22A, Page 35 of 37 SCAA Dt.11.06.2018

We request you to kindly note that there is a discrepancy in the external marks allotted in the Scheme of Examination and distribution of marks indicated in the syllabus for III B.Sc., Zoology – Elective course III: Practical- Poultry Science and Management – revised scheme-Colleges- 2018-19 onwards Annexure No.22A, Page 35 of 37 SCAA Dt.11.06.2018. As per the Scheme of Examination – CBCS Pattern, **the question paper must be set for 30 marks** instead of 45 marks. We request you to kindly correct the Poultry practical External marks to **30 for the forthcoming Even semester Examinations 2021.**

Thanking You.

12.01.2020  
Erode

Yours Sincerely

*A. Chandrakala*

Dr. A. CHANDRAKALA, M.Sc., M.Phil., Ph.D.,  
Assistant Professor & Head  
PG & Research Department of Zoology  
Sri Vasavi College, Erode-638 316.

Encl:

1. A copy of Scheme of Examination – CBCS Pattern 2018 – 19 onwards - B.Sc. Zoology – revised scheme-Colleges- 2018-19 onwards Annexure No.22A, Page 35 of 37 SCAA Dt.11.06.2018



*Recommended and forwarded -*  
*N. J. m.*  
Principal  
Sri Vasavi College,  
ERODE.

### Scheme of Examination – CBCS Pattern

Part	Course Title	Total Hr/Wk	Examinations				Credit
			Dur. Hr	CIA	External	Total Marks	
Semester I							
I	Language I	6	3	25	75	100	4
II	English I	6	3	25	75	100	4
III	Core Course I: Animal Diversity – Non Chordata	6	3	25	75	100	4
	Core Practical I	4	-	-	-	-	-
	Allied A Course I Chemistry/Botany/Biochemistry	4	3	20	55	75	3
	Allied Practical	2	-	-	-	-	-
IV	Environmental Studies	2	3	-	50	50	2
Semester II							
I	Language II	6	3	25	75	100	4
II	English II	6	3	25	75	100	4
III	Core Course III: Animal Diversity – Chordate	6	3	25	75	100	4
	Core Practical I	4	3	40	60	100	4
	Allied A Course II Chemistry/Botany/Biochemistry	4	3	20	55	75	3
	Allied Practical	2	3	20	30	50	2
IV	Value Education – Human Rights	2	3	-	50	50	2
Semester III							
I	Language III	6	3	25	75	100	4
II	English III	6	3	25	75	100	4
III	Core Course III: Comparative Anatomy of Vertebrates.	5	3	25	75	100	4
	Core Practical II	2	-	-	-	-	-
	Allied B Course I Botany Chemistry/Biochemistry	4	3	20	55	75	3
	Allied Practical	2	-	-	-	-	-
	Skill Based I: Sericulture	3	3	20	55	75	3
IV	Non Major Elective I *	2	3	-	50	50	2
Semester IV							
I	Language IV	6	3	25	75	100	4
II	English IV	6	3	25	75	100	4
III	Core Course IV: Ecology, Evolution & Zoogeography	5	3	25	75	100	4
	Core Practical II	2	3	40	60	100	4
	Allied B Course II Botany/Chemistry/Biochemistry	4	3	20	55	75	3
	Allied Practical	2	3	20	30	50	2



IV	Skill Based II: Biostatistics & Computer Applications	3	3	20	55	75	3
	Non Major Elective I *	2	3	-	50	50	2
<b>Semester V</b>							
III	Core Course V: Cell Biology & Biochemistry.	5	3	25	75	100	4
III	Core Course VI: Microbiology	5	3	25	75	100	4
III	Core Course VII: Genetics & Immunology	5	3	25	75	100	4
	Core Practical III	2	-	-	-	-	-
	Core Practical IV	2	-	-	-	-	-
III	Elective Course I: A/B/C#	3	3	20	55	75	3
III	Elective Course II: A/B/C#	3	3	20	55	75	3
III	Elective Course III: Practical#	2	-	-	-	-	-
IV	Skill Based Course III: Biophysics & Instrumentation.	3	3	20	55	75	3
<b>Semester VI</b>							
III	Core Course VIII: Animal Physiology.	5	3	25	75	100	4
III	Core Course IX: Developmental Biology.	5	3	25	75	100	4
III	Core Course X: Biotechnology.	5	3	25	75	100	4
III	Core Practical III	2	3	40	60	100	4
III	Core Practical IV	2	3	40	60	100	4
III	Elective Course I: A/B/C#	3	3	20	55	75	3
III	Elective Course II: A/B/C#	3	3	20	55	75	3
III	Elective Course III: Practical#	2	3	20	30	50	2
IV	Skill Based Course III: Practical	2	3	30	45	75	3
IV	Extension activities**	1	-	-	-	50	2
<b>Total</b>						<b>3500</b>	<b>140</b>

\* Non Major Elective I: Basic Tamil I / Advanced Tamil I / Yoga / Women studies & Non major Elective II: Basic Tamil II / Advanced Tamil II / General Awareness. It is compulsory that those who opt for any languages other than Tamil, they should choose Basic Tamil (Who don't studied Tamil) or Advanced Tamil (For those who studied Tamil up to HSC).

\*\* Only internal marks.

#### # Elective Courses

List of Elective courses(Colleges can choose one course from Elective I & II, Elective III will be the practical of Elective II)		
Elective Course I	A	Human Genetic and Counseling – Course I & II.
	B	Pest and their control – Course I & II.
	C	Wild life management and Conservation – Course I & II.
Elective Course II	A	Pathology and clinical laboratory technique – Course I & II.
	B	Poultry science & Management – Course I & II.
	C	Apiculture – Course I & II.
Elective Course III	A	Pathology and clinical laboratory technique – Practical.
	B	Poultry science & Management – Practical.
	C	Apiculture – Practical.

### Learning Outcome:

1. The course train the students to be a technician in the clinical lab.
2. The students will be through with the various clinical protocols and instrument handling

### Books for reference (Use latest Editions)

1. Mukherjee KL. Medical Laboratory Technology Volume 1, 2 & 3. Tata McGraw-Hill Education
2. Pagana KD, Pagana TJ. Mosby's Manual of Diagnostic and Laboratory Tests-E-Book. Elsevier Health Sciences.
3. Sachdev KN. Clinical Pathology and Clinical Bacteriology. Jaypee Brothers Publishers.
4. Talib VH, Khurana SR. Handbook of medical laboratory technology. CBS Publication, New Delhi.
5. Varley H. Practical clinical biochemistry. Practical clinical biochemistry.

## Elective Course: Poultry Science and Management

### Objectives

5. The course is framed to make the learner well aware of various methods in Poultry Science and its management.
6. To train the students to undertake Poultry farming as income source.

### Elective II B: Poultry Science and Management - Paper – I

#### Unit I

History and importance of poultry forming role of the poultry in rural development employment potential. Economic and contributions to national productivity egg, production. Table bird production, manure as by product. Anatomy and physiology of poultry birds with reference to digestive and reproductive system.

#### Unit II

Breeds of poultry birds and scientific methods of breeding, hybrid selecting and parents for production factors for selection, hatching, selecting eggs for hatching natural and artificial incubation. Types of incubators maintenance of temperature and humidity sterilization of room during hatching separation and culling.

#### Unit III

Poultry house and equipment's, space requirements. Types of house, number of birds equipment's of feeding production from enemies and adverse condition.

#### Unit IV

Nutrition of poultry birds: requirement according to age feed formation Classification breeds-stuffs milling by-product, distillers and by-product. Availability raw materials and their cost food graders and uses of antibiotic.



## Unit V

Brooding and rearing: sexing, vaccination- natural and artificial brooding. Types of brooding, temperature requirement, culling, debarking, characters of good layers and broilers. Capunetts and capons, rearing of chick.

## Elective II-B: Poultry Science and Management Paper – II

### Unit I

Management of layers Changes in feeding programme - space requirements - Lighting requirements. Summer and monsoon management - Care of egg - Hen sampling - Cannibalism - Debeaking - Culling Profitability

### Unit II

Broiler Management Characteristics of the Broiler chicks - Housing of broiler chicks - Optimum Conditions Feeding and Feed formulations – Sampling - Disease and Health Management Diseases Caused by Viruses, Bacteria and Worms

### Unit III

Marek's Ranikhet Diseases – Fowl pox – Coccidiosis – Worms and other Parasites. Toxicosis and an account of aspergillosis – Aflatoxicosis – Salmonella – Health Cover – Antibiotics – Vaccination and Deworming and Insecticide Treatment, Egg drop syndrome

### Unit IV

Marketing, grading and preservation of egg – packing and transportation of eggs – Difference between dark and pale yellow yolk and its taste.

### Unit V

Different uses of eggs in preparation of bakery products and other edible items – Nutritive values of egg – relationship between customers, maintenance of prices.

## Practical - Poultry science and Management

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- 1) Brooding of poultry bird and their characteristic
- 2) Preparation of poultry feeds
- 3) Incubation of Eggs: Temperature and humidity control. Egg rotation –we of candles for eradication of unfertilized eggs. Transfer of chicks to pens.
- 4) Preparation of poultry pens of chicks spreading of husk in-floor location of feeders and watering equipment arrangements of electric lamps adjustment of height.
- 5) Feed rotation watering use of antibiotics poultry pens hygiene-clearing of poultry pens.
- 6) Screening of birds for foot, beak and feather cleanliness isolation of diseased/injured specimens, separation aggressive cannibalistic birds.
- 7) Sexing, debeaking. Introduction of males.
- 8) Position of nest marking layers maintains of records.
- 9) Vaccination of insecticide treatment.
- 10) Deworming and removal of faecal matter.
- 11) Biochemical estimation of nutritive contents in a hen's egg (demonstration)

## Report

Visit to poultry markets/farm /study of specific marketing problems/ in house training in college.

**Question Pattern:** Major: 15, Minor: 10, Record: 5, Spotter: 10 (5 spotters each carry 2 marks) Report: 5 marks.

**Outcome:**

1. The course will give an idea how to manage a Poultry farm.
2. The students will be aware about the various procedures involved in Poultry Science..

**Books for reference (Use latest Editions)**

1. Jadav NV & Sidique MF Handbook of Poultry Production and Management Jaypee Publishers.
2. Banarjee JC & Mandal L Poultry Oxford & IBH.

### **Elective Course: Apiculture**

#### **Objectives**

7. The course is framed to make the learner well aware of various methods of beekeeping and the uses of its appliances.
8. To train the students to undertake Apiculture practice.

### **Elective Course II C: Apiculture I**

#### **Unit I Introduction to Bees**

Scope & Advantages. Kinds of Honey bee -Apis dorsata – Apis florea – Apis cerana indica – Trigona iridipennis. Honey Bee colony: Worker - Queen – Drones. External Morphology of Worker Bee.

#### **Unit II Life Cycle & Anatomy**

Life cycle & Development of Honey Bee. Food of Honey Bee – Nectar – Pollen – Royal Jelly – Honey. Pollen, Nectar & Water foraging – Swarming.

#### **Unit II Life Cycle & Anatomy**

Location & Preparation of Apiary. Acquiring of honey Bees – Catching & caring swarm; Basket – Modern Hive – Decoy Hive – Pot Hive. Package Bees. Nucleus Colony. Handling of Honey Bees.

#### **Unit III Primitive Beekeeping.**

Primitive Beekeeping & structure of Hives - Modern Beekeeping & structure of Hives Advantages and disadvantages of these methods.

#### **Unit IV Apiary Appliances.**