

SRI VENKATESWARA UNIVERSITY
B.Sc. DEGREE COURSE IN ZOOLOGY
SEMESTER SYSTEM WITH CBCS
SEMESTER V

W.E.F. 2022-2023

***Skill Enhancement Courses (SECs) for Semester V,
from 2022-23***

*(Syllabus with Learning Outcomes, References, Co-curricular Activities &
Model Q.P. Pattern)*

Structure of SECs for Semester-V

6C	POULTRY MANAGEMENT- I (POULTRY FARMING)	3+3	3+2	25	75+50
7C	POULTRY MANAGEMENT- II (POULTRY PRODUCTION AND MANGEMENT	3+3	3+2	25	75+50

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Course Code:
Max. Marks: 100

COURSE6 C: POULTRY MANAGEMENT- I (POULTRY FARMING)

(Skill Enhancement Course (Elective), - Credits: 05 (3+2))

I. Learning Outcomes:

Students at the successful completion of the course will be able to

- Evaluate the status of Indian Poultry Industry
- Explain the Scientific Poultry keeping
- Compare the diversified Poultry practices
- Inspect the different breeds of chicken

II. **Syllabus:** *(Total Hours: 90 including Teaching, Lab, Field Skills Training, Unit tests etc.)*

Unit 1 Indian poultry Industry

- 1.1 Importance of poultry farming and poultry development in India.
- 1.2 Present status and future prospectus of poultry Industry

Unit -2 Scientific Poultry Keeping

- 2.1 Modern breeds of Chicken
- 2.2 Present day egg production lines- meat production lines

Unit-3 Diversified Poultry

- 3.1 Ducks and Geese-classification- rearing system-classification-advantages
- 3.2 Guinea fowls - guinea fowl farming in India-Production-varieties

Unit-4 Desi Chickens:

- 4.1 Indigenous breeds and economical aspects of desi chicken
- 4.2 Indigenous breeds-Aseel -Chittagong- Kadaknath -Bursa
- 4.3 Improved varieties in India-Giriraja - Vanaraja – Girirani - Kalinga brown, Gramapriya, Swarnandhra

Unit -5 Breeds from Central Avian Research Institute – Izatnagar

- 5.1 CARI Nirbheek - CARI- Shyama-HITCARI (Naked Neck Cross)
- 5.2 CARI- Priya Layer, CARI- Sonali Layer,
- 5.3 CARIBRO-VISHAL, CARI-RAINBRO,

III. References:

1. Text Book of Poultry Science, P V Sreenivasaiah, Write and Print Publications, ISBN No. 9788192970592, 8192970590
2. Poultry Science Practices, Nilothpal Ghosh, CBS Publication & Distributions, 2015
3. Principles of Poultry Science, 1996, CAB Publishers, ISBN 9780851991221
4. A Text Book of Animal Husbandry, C. C. Banerjee, Oxford and IBH, Publish Co, ISBN: 9788120412606

Web sources

1. <https://www.drvtet.in/p/e-books.html>
2. <https://byjus.com/biology/animal-husbandry-poultry-farming/>
3. https://www.helpforag.app/2018/02/livestock-production-and-management-lpm_14.html?m=1

COURSE6 C: POULTRY MANAGEMENT- I (POULTRY FARMING)
PRACTICAL SYLLABUS

IV. Learning Outcomes: On successful completion of this practical course, student shall be able to:

- Identify different types of Poultry rearing practices
- Evaluate the efficacy of different types of poultry practices in maximizing yield
- Understand the importance of different hybrid breeds in poultry

V. Practical (Laboratory) Syllabus: (30hrs) (Max.50Marks)

1. Different types of Poultry rearing (Students has to observe and draw the different types of poultry rearing systems)
2. Different types of poultry Housing - Models / Images/charts
3. Different layer breeds images/charts/ Models (Observation of characters)
4. Types of broilers images/charts/ Models (Identification of important Characters)
5. CARI breeds characters –images/charts

*** (This practical is 70 % (Web based /virtual) 30% physical: student and teachers must browse the web for the specimens models – write down the important characters based on the web resources)

VI. Lab references

1. A Text Book of Animal Husbandry, C. C. Banerjee, Oxford and IBH, Publish Co, ISBN: 9788120412606

Web resources suggested by the teacher concerned and the college librarian including reading material

VII. Co-Curricular Activities:

a) **Mandatory:** *(Student training by teacher in field skills: total 15 hours (lab: 10, field 05))*

1. For Teacher: Training of students by the teacher in laboratory and field for not less than 15 hours on the techniques of identification of layers, broilers and management practices in poultry.
2. For Student: Students shall Individually visit a Poultry farm, make observations and report on the Rearing, Housing, Brooding, Feeding and water management activities. The student shall submit a handwritten Fieldwork/Project work Report on the observations along with pictures in the given format not exceeding 10 pages to teacher.
3. Max marks for Fieldwork/Project work Report: 05.
4. Suggested Format for Fieldwork/Project work: *Title page, student details, index page, details of place visited, observations made, findings and acknowledgements.*
5. Unit tests. (IE)

b) Suggested Co-Curricular Activities

1. Web resources – visiting the web sites of CARI-
IZATNAGAR- <https://cari.icar.gov.in>procuring additional information on the poultry breeds
2. Web resources- visiting the web site of
NANADANAM http://www.tanuv.ac.in/ippmmadhavaram_tech.html
3. Collection of additional data on different types of Poultry breeds
4. Seminar, Assignment, Group discussion. Quiz, Collection
of Material, Invited Lecture, Video preparation etc.

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Course 6 C: POULTRY MANAGEMENT- I (POULTRY FARMING)

MODEL QUESTION PAPER

Course Code:

Time:3 hrs

Max.Marks:75

SECTION - A

(Total: 5x5=25Marks)

(Answer any Five questions. Each answer carries 5 marks)

(At least 1 question should be given from each Unit)

1. Poultry development
2. Meat production life
3. Duck rearing system
4. Aseel
5. Types of guinea fowl
6. Hitcari
7. Kadaknath
8. CARI nirbheek

SECTION B

(Total: 5x10 = 50 Marks)

(Answer all questions. Each answer carries 10 marks)

(At least 1 question should be given from each Unit)

9. Describe the importance of poultry farming

(or)

Explain the present status and future prospectus of poultry

10. Write any five modern breeds of chicken

Or

Explain in detail about the egg production lines of present day

11. Write about ducks and geese classification

Or

Give an account on guinea fowl farming in India

12. Explain the economical aspects of desi chicken

Or

Add a note on giri raja, kalinga brown, gramapriya and swarnandhra

13. Write about central avian research institute

Or

Give an account of caribro-vishal and cari-rainbro

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6 C: POULTRY MANAGEMENT- I (POULTRY FARMING)

PRACTICAL MODEL QUESTION PAPER

Course:

Time:3 hrs

Max.Marks:75

- | | |
|---|---------|
| 1. Observe and draw the given poultry rearing system | 10M |
| 2. Identify the following models/charts with characters and
draw the labeled diagram | 6x5=30M |
| 3. Certified record | 10M |
| 4. Total | 50M |

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Course Code:
Max. Marks: 100+50

Course 7 C: POULTRY MANAGEMENT – II
(POULTRY PRODUCTION AND MANGEMENT)

(Skill Enhancement Course (Elective), - Credits: 05)

I. Learning Outcomes:

Students at the successful completion of the course will be able to

- Suggest measure for Health care in Poultry
- Evaluate the economics of poultry production
- Elaborate the poultry Breeder flock management
- Differentiate the poultry hatchery practices

II. **Syllabus:** *(Total Hours: 90 including Teaching, Lab, Field Skills Training, Unit tests etc.)*

Unit-1 HEALTH CARE

1.1

Common poultry diseases: bacterial, viral, fungal, parasitic and nutritional deficiencies.

1.2 Vaccination schedule for commercial layers and broilers: factors that govern vaccination schedule; vaccination principles type, methods, pre and post vaccination care.

1.3 Disinfection: Types of disinfectants; mode of action; recommended procedure; precaution and handling.

Unit-2 ECONOMICS

2.1 Economics of layer and broiler production

2.2 Feasibility studies on poultry rearing- in context of small units and their profitability.

2.3 Export/import of poultry and poultry products.

Unit-3 BREEDER FLOCK MANAGEMENT

3.1 Layer and broiler breeder flock management housing & space requirements.

3.2 Different stage of management during life cycle; Light management during growing and laying period, Artificial insemination.

3.3 Feeding: Feed restriction, separate male feeding. Nutrient requirement of layer and broiler breeders of different age groups.

Unit-4 BREEDER HEALTHCARE

4.1 Vaccination of breeder flock; difference between vaccination schedule of broilers and commercial birds.

4.2 Common diseases of breeders (Infectious and metabolic disorders)-prevention.

Unit-5 HATCHERY PRACTICES

5.1 Management principles of incubation.

5.2 Factors affecting fertility and hatchability. Selection, care and incubation of hatching eggs. Fumigation; sanitation and hatchery hygiene.

5.3 Importance of hatchery records, break even analysis of unhatched eggs.

III. References:

1. HVS Chauhan, S. Roy, Poultry Diseases, Diagnosis and Treatment, New Age International

Publishers-2018

2. <https://www.drvet.in/p/e-books.html>

3. <https://byjus.com/biology/animal-husbandry-poultry-farming/>

4. https://www.helpforag.app/2018/02/livestock-production-and-management-lpm_14.html?m=1

Course 7C: POULTRY MANAGEMENT –II- PRACTICAL SYLLLABUS
(POULTRY PRODUCTION AND MANGEMENT)

IV. Learning Outcomes:

On successful completion of this practical course, student shall be able to:

- Identify Poultry diseases by observation
- Analyze Poultry establishment feasibility
- Understand the Poultry Records

V. Practical(Laboratory) Syllabus:(30hrs) (Max.50Marks)

1. Poultry Viral diseases – Observation of histopathological slides/charts
2. Poultry Fungal Diseases- Observation of histopathological slides/charts
3. Poultry Bacterial Diseases-Observation of histopathological slides/charts
4. Rearing of Layers – (Preparation of Flow chart
5. Rearing of broiler- Flow chart

VI. Lab references :

1. HVS Chauhan, S. Roy, Poultry Diseases, Diagnosis and Treatment, New Age International Publishers-2018
2. Flow chart hatchery : <http://lms.tanuvas.ac.in/mod/resource/view.php?id=45106>
3. Feasibility report: <https://www.manage.gov.in/stry&fcac/content/19.%20Project%20Report%20on%20Layer%20Poultry.pdf>

Web resources suggested by the teacher concerned and the college librarian including reading material

VII. Co-Curricular Activities

a) **Mandatory:***(Lab/filed training of students by teacher: (lab10+ field 05)*

1. For Teacher: Training of students by the teacher laboratory and field for not less than 15 hours on skills in different practices employed in poultry with regard to the disease management – analysis of poultry project- preparation of flow chart – Observation of Poultry records – computerization activities
2. For Student: students shall (individually) visit a Layer/ Broiler Poultry farming places (small scale/corporate), make observations on practices- resources – management and marketing - analysis and submit a handwritten Fieldwork/Project work Report of 10 pages with necessary images.
3. Max marks for Fieldwork/Project work Report: 05.
4. Suggested Format for Fieldwork/Project work: *Title page, student details, index page, details of place visited, observations made, findings and acknowledgements.*
6. (IE): Unit tests.

b) Suggested Co-Curricular Activities

1. Preparation of Poultry diseases charts
2. Preparation of feasibility report poultry establishment with different variables
3. Seminar, Assignment, Group discussion. Quiz, Collection of Material, Invited Lecture, Video preparation etc.

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**7 C: POULTRY MANAGEMENT -II (POULTRY PRODUCTION AND
MANAGEMENT)**

Model Question Paper

Course Code
Time:3 hrsMax

Marks:75

SECTION – A

(Total: 5x5=25Marks)

(Answer any Five questions. Each answer carries 5 marks)
(At least 1 question should be given from each Unit)

1. Types of Disinfectants
2. Poultry rearing
3. Light management
4. Metabolic disorders
5. Fumigation
6. Separate male feeding
7. Pre and post vaccination care
8. Hatchery hygiene

SECTION B

(Total: 5x10 = 50 Marks)

(Answer any five questions. Each answer carries 10
marks (At least 1 question should be given from each Unit))

9. a Write about the common poultry diseases
or
b Explain the vaccination schedule for commercial layers
10. a Describe the economics of broiler production
or
b Write about the export and import of poultry products
11. a Explain the various steps in artificial insemination
or
b Write a note on nutrient requirement of layer breeds of different age groups
12. a Discuss about difference between vaccination schedule of broilers and commercial birds
or
b. Explain the various common diseases of breeds

13. a Describe the management principles of Incubation

or

b Write an essay on importance of hatchery records

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7 C: POULTRY MANAGEMENT – I
(POULTRY PRODUCTION AND MANGEMENT)

MODEL PRACTICAL PAPER

Course code:
Max.Marks:75

Time:3 hrs

1. Prepare and draw the flow chart of rearing of Layers/Broilers 10M
2. Identify the following histo- pathological slides/charts with characters and labeled diagram
6x5=30M
3. Certified record 10M
4. Total 50M