

DEPARTMENT OF ANIMAL GENETICS & BREEDING

APOLLO COLLEGE OF VETERINARY MEDICINE

LECTURE SCHEDULE- THEORY**Credit Hours: 3+1****Commencement of Class: 07-11-2024**

S.No	Date	Name of Topics	Name of Course Teacher
UNIT- I			
1	07-11-24	Biostatistics-Introduction	Dr B. Kamble
2	08-11-24	Importance of statistics	Dr B. Kamble
3	13-11-24	Classification & tabulation of Data	Dr B. Kamble
4	14-11-24	Data classification	Dr B. Kamble
5	15-11-24	Parameter of statistics	Dr B. Kamble
6	20-11-24	Observation of Data	Dr B. Kamble
7	21-11-24	Diagrammatic representation of Data...contd	Dr B. Kamble
8	22-11-24	Diagrammatic representation of Data	Dr B. Kamble
9	27-11-24	Types of Diagramme	Dr P. Shende
10	28-11-24	Graphical representation of Data	Dr P. Shende
11	29-11-24	Measurement of Central tendency.....contd	Dr P. Shende
12	04-12-24	Measurement of Central tendency	Dr P. Shende
13	05-12-24	Simple and group of Data	Dr P. Shende
14	06-12-24	Measures of Dispersion...contd	Dr P. Shende
15	11-12-24	Measures of Dispersion	Dr P. Shende
16	12-12-24	Different Parameter	Dr P. Shende
17	13-12-24	Probability...contd	Dr B. Kamble
18	18-12-24	Probability	Dr B. Kamble
19	19-12-24	Laws of Probability	Dr B. Kamble
20	20-12-24	Normal Distribution	Dr B. Kamble
21	26-12-24	Binomial & Poisson Distribution	Dr B. Kamble
22	27-12-24	Moments, Skewness	Dr B. Kamble
23	01-01-25	Kurtosis, Correlation	Dr Rohit Sharma
24	02-01-25	Regression	Dr Rohit Sharma
25	03-01-25	Introduction of Experimental Statistics	Dr Rohit Sharma
26	08-01-25	Sample methods	Dr P. Shende
27	09-01-25	Test of Hypothesis	Dr P. Shende
28	10-01-25	Level of significance	Dr P. Shende

29	15-01-25	t-test Formula with Proof	Dr B. Kamble
30	16-01-25	Chi square Test	Dr B. Kamble
31	17-01-25	Significance and Non significance Test	Dr B. Kamble
32	22-01-25	'Z' test	Dr B. Kamble
33	23-01-25	Analysis of Variance (ANOVA)	Dr B. Kamble
34	24-01-25	F test	Dr B. Kamble
35	29-01-25	Design of Experiments	Dr Rohit Sharma
36	30-01-25	Introduction about Computer	Dr Rohit Sharma
37	31-01-25	Computer language	Dr P.shende
38	05-02-25	Data base Management	Dr P.shende
39	06-02-25	MS office ,Anaysis of Data	Dr Rohit Sharma
UNIT-II			
40	07-02-25	History of Genetics	Dr Rohit Sharma
41	12-02-25	Mitosis and Meiosis	Dr Rohit Sharma
42	13-02-25	Types of Chromosomes in different Species	Dr Rohit Sharma
43	14-02-25	Overview of Mendelian principles	Dr Rohit Sharma
44	19-02-25	Modified Mendelian inheritance	Dr P. Shende
45	20-02-25	Pleiotropy Penetrance and Expressivity	Dr P. Shende
46	21-02-25	Multiple alleles	Dr P. Shende
47	27-02-25	Sex-linked inheritance	Dr Rohit Sharma
48	28-02-25	Chromosomal inheritance	Dr Rohit Sharma
49	05-03-25	Sex determination	Dr P. Shende
50	06-03-25	Linkage and crossing over	Dr P. Shende
51	07-03-25	Significance of Crossing over	Dr P. Shende
52	12-03-25	Construction of linkage Map	Dr B. Kamble
53	19-03-25	Mutation	Dr B. Kamble
54	20-03-25	Chromosomal aberrations	Dr B. Kamble
55	26-03-25	Cytogenetic	Dr B. Kamble
56	27-03-25	Extra chromosomal inheritance	Dr B. Kamble
57	28-03-25	Molecular genetics	Dr B. Kamble
58	02-04-25	Nucleic acid Structure & Function	Dr Rohit Sharma
59	03-04-25	Gene concept	Dr Rohit Sharma
60	04-04-25	DNA & its replication	Dr Rohit Sharma
61	09-04-25	Introduction to molecular technique	Dr Rohit Sharma
62	16-04-25	Population genetics	Dr Rohit Sharma

63	17-04-25	Genetic structure of Population	Dr Rohit Sharma
64	23-04-25	Hardy-Weinberg law	Dr Rohit Sharma
65	24-04-25	Factor affecting Hardy-Weinberg law	Dr B. Kamble
66	25-04-25	Prof of H.W. Laws	Dr B. Kamble
67	01-05-25	Quantitative Genetics	Dr B. Kamble
68	02-05-25	Average effect, Breeding value	Dr B. Kamble
69	07-05-25	Forces changing gene & genotypic frequencies	Dr B. Kamble
70	08-05-25	Mutation, Migration, Genetics Drift	Dr B. Kamble
71	09-05-25	Concept of Variance	Dr B. Kamble
72	14-05-25	Heritability its Property	Dr B. Kamble
73	15-05-25	Repeatability its importance	Dr B. Kamble
74	16-05-25	Genetic and Phenotypic Correlations	Dr Rohit Sharma
75	21-05-25	Types of Correlations	Dr Rohit Sharma
UNIT-III			
76	22-05-25	History of Animal Breeding	Dr B. Kamble
77	23-05-25	Classification of Breeds	Dr B. Kamble
78	28-05-25	Economic characters of livestock and poultry	Dr B. Kamble
79	30-05-25	Selection & Types	Dr B. Kamble
80	04-06-25	Response to selection & Factors affecting it	Dr P. Shende
81	05-06-25	Basis of selection	Dr Rohit Sharma
82	06-06-25	Combined, Indirect selection	Dr Rohit Sharma
83	11-06-25	Method of selection	Dr Rohit Sharma
84	12-06-25	Single and Multi trait selection	Dr P. Shende
85	13-06-25	Classification of Mating systems	Dr Rohit Sharma
86	18-06-25	Inbreeding Coefficient	Dr Rohit Sharma
87	19-06-25	Inbreeding depression	Dr Rohit Sharma
88	20-06-25	Outbreeding & Heterosis	Dr Rohit Sharma
89	25-06-25	Selection of Combining ability	Dr Rohit Sharma
90	26-06-25	Breeding strategies of cattle & Buffalo	Dr Rohit Sharma
91	27-06-25	Sire evaluation	Dr Rohit Sharma
92	02-07-25	O.N.B.S	Dr Rohit Sharma
93	03-07-25	Current livestock and poultry breeding Policies	Dr Rohit Sharma
94	04-07-25	Current livestock and poultry breeding Policies	Dr Rohit Sharma
95	09-07-25	Conservation of Breeds	Dr Rohit Sharma
96	10-07-25	Application of reproductive and biotechnological tools...contd	Dr P. Shende

97	11-07-25	Application of reproductive and biotechnological tools...contd	Dr P. Shende
98	16-07-25	Application of reproductive and biotechnological tools	Dr P. Shende
99	17-07-25	Breeding for disease resistance	Dr Rohit Sharma
100	18-07-25	Classification of vertebrates & invertebrates	Dr Rohit Sharma
101	23-07-25	Classification of Wild Animals	Dr Rohit Sharma
102	24-07-25	Breeding of pet animals	Dr Rohit Sharma
103	25-07-25	Breeding of zoo and wild animals	Dr P. Shende
104	30-07-25	Breeding of zoo and wild animals...contd	Dr P. Shende
105	31-07-25	Classification of dog and cat breeds, Pedigree sheet...contd	Dr Rohit Sharma
106	01-08-25	Classification of dog and cat breeds	Dr Rohit Sharma
107	06-08-25	Pedigree sheet	Dr Rohit Sharma
108	07-08-25	Breeding Management of Dogs and cats....contd	Dr Rohit Sharma
109	08-08-25	Breeding Management of Dogs and cats	Dr Rohit Sharma
110	13-08-25	Population effective size, Population dynamics....contd	Dr Rohit Sharma
111	14-08-25	Population effective size, Population dynamics	Dr Rohit Sharma
112	20-08-25	Controlled breeding in wild Animal....contd	Dr P. Shende
113	21-08-25	Controlled breeding in wild Animal	Dr P. Shende
114	22-08-25	Breeding for conservation of wild animals...contd	Dr Rohit Sharma
115	27-08-25	Breeding for conservation of wild animals	Dr Rohit Sharma
116	28-08-25	Important Term Related to Wild Life	Dr Rohit Sharma
117	29-08-25	Importance of Livestock Breeding	Dr P. Shende

DEPARTMENT OF ANIMAL GENETICS & BREEDING
APOLLO COLLEGE OF VETERINARY MEDICINE
LECTURE SCHUDULE- PRACTICAL

Credit Hours: 3+1

Commencement of Class: 07-11-2024

Batch A

S.N.	Date	Name of Topics	Name of Course Teacher
UNIT- I			
1	20-11-24	Collection, Classification and Tabulation of data	Dr. B. Kamble
2	27-11-24	Graphical and Diagrammatic representation of data	Dr. B. Kamble
3	04-12-24	Estimation of Measures of Central Tendency	Dr. B. Kamble
4	11-12-24	Estimation of Measures of Dispersion	Dr. B. Kamble
5	01-01-25	Estimation of Correlation and Regression	Dr Rohit Sharma
6	08-01-25	Probability	Dr Rohit Sharma
7	15-01-25	Test of significance: Z test & t-test	Dr. B. Kamble
8	22-01-25	Chi Square test & F-test	Dr. B. Kamble
9	29-01-25	Completely Randomized Design (CRD)	Dr Rohit Sharma
10	05-02-25	Randomized Block Design (RBD)	Dr Rohit Sharma
11	12-02-25	Computer Basics and Components	Dr Pramod Shende
12	19-02-25	Internet & E-mail Applications	Dr Pramod Shende
13	05-03-25	MS-office, MS-PowerPoint, MS-Excel	Dr Pramod Shende
14	12-03-25	Computer Applications in Animal Sciences	Dr Pramod Shende
Unit-II			
15	19-03-25	Demonstration of Karyotyping in Farm animals	Dr. B. Kamble
16	26-03-25	Monohybrid crosses	Dr Rohit Sharma
17	02-04-25	Dihybrid crosses	Dr Rohit Sharma
18	09-04-25	Modified Mendelian Inheritance	Dr Rohit Sharma
19	16-04-25	Sex linked inheritance	Dr Rohit Sharma
20	23-04-25	Linkage & Crossing over	Dr. B. Kamble
21	07-05-25	Estimation of gene and Genotypic Frequency	Dr Rohit Sharma
22	14-05-25	Testing for H-W Equilibrium, forces changing frequencies	Dr Rohit Sharma
23	21-05-25	Computation of Population Mean, Average Effect, Breeding Value	Dr Rohit Sharma
24	28-05-25	Estimation of heritability	Dr Rohit Sharma
25	04-06-25	Estimation of repeatability	Dr. B. Kamble
26	11-06-25	Estimation of phenotypic and genotypic correlations	Dr. B. Kamble
Unit III			
27	18-06-25	Computation of selection differential, intensity of selection, genetic gain	Dr. B. Kamble
28	25-06-25	Estimation of Correlated response	Dr. B. Kamble
29	02-07-25	Estimation of MPPA	Dr. B. Kamble
30	09-07-25	Path Diagrams	Dr Rohit Sharma
31	16-07-25	Estimation of Inbreeding coefficient	Dr Rohit Sharma

32	23-07-25	Estimation of Relationship coefficient	Dr Rohit Sharma
33	30-07-25	Estimation of Heterosis	Dr. B. Kamble
34	06-08-25	Computation of Sire indices	Dr. B. Kamble
35	13-08-25	Computation of Selection index	Dr Rohit Sharma
36	20-08-25	TEST PAPER	Dr Rohit Sharma
37	27-08-25	TEST PAPER	Dr Rohit Sharma

DEPARTMENT OF ANIMAL GENETICS & BREEDING
APOLLO COLLEGE OF VETERINARY MEDICINE
LECTURE SCHUDULE- PRACTICAL

Credit Hours: 3+1

Commencement of Class: 07-11-2024

Batch B

S.N.	Date	Name of Topics	Name of Course Teacher
UNIT- I			
1	21-11-24	Collection, Classification and Tabulation of data	Dr. B. Kamble
2	28-11-24	Graphical and Diagrammatic representation of data	Dr. B. Kamble
3	05-12-24	Estimation of Measures of Central Tendency	Dr. B. Kamble
4	12-12-24	Estimation of Measures of Dispersion	Dr. B. Kamble
5	02-01-25	Estimation of Correlation and Regression	Dr Rohit Sharma
6	09-01-25	Probability	Dr Rohit Sharma
7	16-01-25	Test of significance: Z test & t-test	Dr. B. Kamble
8	23-01-25	Chi Square test & F-test	Dr. B. Kamble
9	30-01-25	Completely Randomized Design (CRD)	Dr Rohit Sharma
10	06-02-25	Randomized Block Design (RBD)	Dr Rohit Sharma
11	13-02-25	Computer Basics and Components	Dr Pramod Shende
12	20-02-25	Internet & E-mail Applications	Dr Pramod Shende
13	27-02-25	MS-office, MS-PowerPoint, MS-Excel	Dr Pramod Shende
14	06-03-25	Computer Applications in Animal Sciences	Dr Pramod Shende
UNIT-II			
15	20-03-25	Demonstration of Karyotyping in Farm animals	Dr. B. Kamble
16	27-03-25	Monohybrid crosses	Dr Rohit Sharma
17	03-04-25	Dihybrid crosses	Dr Rohit Sharma
18	17-04-25	Modified Mendelian Inheritance	Dr Rohit Sharma
19	24-04-25	Sex linked inheritance	Dr Rohit Sharma
20	01-05-25	Linkage & Crossing over	Dr. B. Kamble
21	08-05-25	Estimation of gene and Genotypic Frequency	Dr Rohit Sharma
22	15-05-25	Testing for H-W Equilibrium, forces changing frequencies	Dr Rohit Sharma
23	22-05-25	Computation of Population Mean, Average effect of gene ,Breeding Value	Dr Rohit Sharma
24	05-06-25	Estimation of heritability	Dr Rohit Sharma
25	12-06-25	Estimation of repeatability	Dr. B. Kamble
26	19-06-25	Estimation of phenotypic and genotypic correlations	Dr. B. Kamble
UNIT-III			
27	26-06-25	Computation of selection differential, intensity of selection, genetic gain	Dr. B. Kamble
28	03-07-25	Estimation of Correlated response	Dr. B. Kamble
29	10-07-25	Estimation of MPPA	Dr. B. Kamble
30	17-07-25	Path Diagrams	Dr Rohit Sharma
31	24-07-25	Estimation of Inbreeding coefficient	Dr Rohit Sharma
32	31-07-25	Estimation of Relationship coefficient	Dr. B. Kamble
33	07-08-25	Estimation of Heterosis	Dr. B. Kamble

34	14-08-25	Computation of Sire indices	Dr Rohit Sharma
35	21-08-25	Computation of Selection index	Dr Rohit Sharma
36	28-08-25	TEST PAPER	Dr Rohit Sharma

DEPARTMENT OF ANIMAL GENETICS & BREEDING**APOLLO COLLEGE OF VETERINARY MEDICINE****LECTURE SCHEDULE- PRACTICAL****Credit Hours: 3+1****Commencement of Class: 07-11-2024****Batch C**

S.N.	Date	Name of Topics	Name of Course Teacher
UNIT- I			
1	18-11-24	Collection, Classification and Tabulation of data	Dr. B. Kamble
2	25-11-24	Graphical and Diagrammatic representation of data	Dr. B. Kamble
3	02-12-24	Estimation of Measures of Central Tendency	Dr. B. Kamble
4	09-12-24	Estimation of Measures of Dispersion	Dr. B. Kamble
5	23-12-24	Estimation of Correlation and Regression	Dr Rohit Sharma
6	30-12-24	Probability	Dr Rohit Sharma
7	13-01-25	Test of significance: Z test & t-test	Dr. B. Kamble
8	20-01-25	Chi Square test & F-test	Dr. B. Kamble
9	27-01-25	Completely Randomized Design (CRD)	Dr Rohit Sharma
10	03-02-25	Randomized Block Design (RBD)	Dr Rohit Sharma
11	10-02-25	Computer Basics and Components	Dr Pramod Shende
12	17-02-25	Internet & E-mail Applications	Dr Pramod Shende
13	24-02-25	MS-office, MS-PowerPoint, MS-Excel	Dr Pramod Shende
14	03-03-25	Computer Applications in Animal Sciences	Dr Pramod Shende
UNIT-II			
15	10-03-25	Demonstration of Karyotyping in Farm animals	Dr. B. Kamble
16	17-03-25	Monohybrid crosses	Dr Rohit Sharma
17	24-03-25	Dihybrid crosses	Dr Rohit Sharma
18	07-04-25	Modified Mendelian Inheritance	Dr Rohit Sharma
19	21-04-25	Sex linked inheritance	Dr Rohit Sharma
20	28-04-25	Linkage & Crossing over	Dr. B. Kamble
21	05-05-25	Estimation of gene and Genotypic Frequency	Dr Rohit Sharma
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29	30-06-25	Estimation of MPPA	Dr. B. Kamble
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31	14-07-25	Estimation of Inbreeding coefficient	Dr Rohit Sharma
32	21-07-25	Estimation of Relationship coefficient	Dr Rohit Sharma
33	28-07-25	Estimation of Heterosis	Dr. B. Kamble
34	04-08-25	Computation of Sire indices	Dr. B. Kamble

35	11-08-25	Computation of Selection index	Dr Rohit Sharma
36	18-08-25	TEST PAPER	Dr Rohit Sharma
37	25-08-25	TEST PAPER	Dr Rohit Sharma

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LECTURE SCHUDULE- PRACTICAL**Credit Hours: 3+1****Commencement of Class: 07-11-2024****Batch D**

S.N.	Date	Name of Topics	Name of Course Teacher
UNIT- I			
1	19-11-24	Collection, Classification and Tabulation of data	Dr. B. Kamble
2	26-11-24	Graphical and Diagrammatic representation of data	Dr. B. Kamble
3	03-12-24	Estimation of Measures of Central Tendency	Dr. B. Kamble
4	10-12-24	Estimation of Measures of Dispersion	Dr. B. Kamble
5	24-12-24	Estimation of Correlation and Regression	Dr Rohit Sharma
6	31-12-24	Probability	Dr Rohit Sharma
7	07-01-25	Test of significance: Z test & t-test	Dr. B. Kamble
8	21-01-25	Chi Square test & F-test	Dr. B. Kamble
9	28-01-25	Completely Randomized Design (CRD)	Dr Rohit Sharma
10	04-02-25	Randomized Block Design (RBD)	Dr Rohit Sharma
11	11-02-25	Computer Basics and Components	Dr Pramod Shende
12	18-02-25	Internet & E-mail Applications	Dr Pramod Shende
13	25-02-25	MS-office, MS-PowerPoint, MS-Excel	Dr Pramod Shende
14	04-03-25	Computer Applications in Animal Sciences	Dr Pramod Shende
Unit-II			
15	11-03-25	Demonstration of Karyotyping in Farm animals	Dr. B. Kamble
16	18-03-25	Monohybrid crosses	Dr Rohit Sharma
17	25-03-25	Dihybrid crosses	Dr Rohit Sharma
18	01-04-25	Modified Mendelian Inheritance	Dr Rohit Sharma
19	08-04-25	Sex linked inheritance	Dr Rohit Sharma
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25	27-05-25	Estimation of repeatability	Dr. B. Kamble
26	03-06-25	Estimation of phenotypic and genotypic correlations	Dr. B. Kamble
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27	10-06-25	Computation of selection differential, intensity of selection, genetic gain	Dr. B. Kamble
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31	08-07-25	Estimation of Inbreeding coefficient	Dr Rohit Sharma
32	15-07-25	Estimation of Relationship coefficient	Dr Rohit Sharma
33	22-07-25	Estimation of Heterosis	Dr. B. Kamble
34	05-08-25	Computation of Sire indices	Dr. B. Kamble

35	12-08-25	Computation of Selection index	Dr Rohit Sharma
36	19-08-25	TEST PAPER	Dr Rohit Sharma
37	26-08-25	TEST PAPER	Dr Rohit Sharma