# **ALAGAPPA UNIVERSITY**

(Accredited with A+ Grade by NAAC (CGPA: 3.64) in the Third Cycle, Graded as Category-I University and granted autonomy by MHRD-UGC)

# DIRECTORATE OF COLLABORATIVE PROGRAMMES



# **B.Sc., Poultry Science**

Regulations and Syllabus
[For those who join the Course in July 2023 and after]
CHOICE BASED CREDIT SYSTEM

# GENERAL INSTRUCTIONS AND REGULATIONS

B.Sc., Poultry Science, degree program is conducted by Alagappa University, Karaikudi,

Tamil Nadu through its Collaborative Institution.

Applicable to all the candidates are admitted for the academic year 2023 onwards.

# 1. Eligibility:

A minimum pass in Higher Secondary Examination (HSC)/ PUC/ Intermediate or Equivalent, or an examination accepted as equivalent thereto by the Syndicate for admission to **B.Sc. Poultry Science.** 

#### 2. For the Degree:

The candidates shall have subsequently undergone the prescribed programme of study in an institute for not less than three academic years, passed the examinations prescribed and fulfill such conditions as have been prescribed therefore.

#### 3. Admission:

Admission is based on the marks in the qualifying examination.

#### 4. Duration of the course:

The course shall extend over a period of **Three years** under the Semester pattern.

#### 5. Standard of Passing and Award of Division:

- a. Students shall have a minimum of 40% of the total marks of the University examinations in each subject. The overall passing minimum is 40% both in aggregate of Continuous Internal Assessment and external in each subject.
- b. The minimum marks for passing in each theory / Lab course shall be 40% of the marks prescribed for the paper / lab.
- c. A candidate who secures 40% or more marks but less than 50% of the aggregate marks prescribed for three years taken together, shall be awarded **THIRD CLASS**.
- d. A candidate who secures 50% or more marks but less than 60% of the aggregate marks prescribed for three years taken together, shall be awarded **SECOND CLASS.**
- e. A candidate who secures 60% or more of the aggregate marks prescribed for three years taken together, shall be awarded **FIRST CLASS**.
- f. Only Part-III subjects were considered for the ranking.
- g. The Practical / Project shall be assessed by the two examiners, by an internal examiner and an external examiner.

#### 6. Continuous internal Assessment:

- a. Continuous Internal Assessment for each paper shall be by means of Written Tests, Assignments, Class tests and Seminars
- b. **25 marks** allotted for the Continuous Internal assessment is distributed for Written Test, Assignment, Class test and Seminars.
- c. One Internal Tests of 2 hours duration may be conducted during the semester for each course / subject and the best marks may be considered and one Model Examination will be conducted at the end of the semester prior to University examination. Students may be asked to submit at least five assignments in each subject. They should also participate in Seminars conducted for each subject and mark allocated accordingly.
- d. Conduct of the continuous internal assessment shall be the responsibility of the concerned faculty.
- e. The continuous internal assessment marks are to be submitted to the University at the end of every year.
- f. The valued answer papers/assignments should be given to the students after the valuation is over, and they should be asked to check up and satisfy themselves about the marks they have scored.

g. All mark lists and other records connected with the continuous internal assessments should be in the safe custody of the institution for at least one year after the assessment.

#### 7. Attendance:

- Students must have earned 75% of attendance in each course for appearing for the examination.
- Students who have earned 74% to 70% of attendance to be applied for condonation in the prescribed form with the prescribed fee.
- Students who have earned 69% to 60% of attendance to be applied for condonation in the prescribed form with the prescribed fee along with the medical certificate.
- Pupils who have below 60% of attendance are not eligible to appear for the examination. They shall re-do the semester(s) after completion of the programme.

#### 8. Examination:

The candidate must complete course duration to appear for the university examination. The examination will be conducted with the concurrence of Controller of Examinations as per the Alagappa University regulations. The University may send the representatives as the observer during examinations. University Examination will be held at the end of the semester for the duration of 3 hours for each subject. A certificate will be issued as per the AU regulations. Hall ticket will be issued to the 1<sup>st</sup> year candidates and upon submission of the list of enrolled students along with the prescribed course fee subsequent 2<sup>nd</sup> and 3<sup>rd</sup> year hall tickets will be issued.

# 9. Question Paper pattern:

Maximum: 75 Marks

Part A - Short answer questions with no choice

Part B - Brief answer with either or type

Part C- Essay - type questions of either or type

Duration: 3Hours

: 10 x 02=20

: 05 x 05=25

: 03 x 10=30

#### 10. Miscellaneous

- a. Each student possesses the prescribed text books for the subject and the workshop tools as required for theory and practical classes.
- b. Each student is issued with an identity card by the University to identify his / her admission to the course
- c. Students are provided library and internet facilities for development of their studies.
- d. Students are to maintain the record of practical conducted in the respective laboratory in a separate Practical Record Book, and the same will have to be presented for review by the University examiner.
- e. Students who have successfully completed the course within the stipulated period will be awarded the degree by the University.
- f. The Internship / Project (any other viva-voce) where external examiner is assigned from the university, there may be changes in the exam dates as per the availability of the External Examiner.

#### 11. Fee structure

Course fee shall be as prescribed by the University and 50% of the course fee should be disbursed to the University. Special fees and other fees shall be as prescribed by the Institution and the fees structure must intimated to the University. Course fees should be only by Demand draft / NEFT and AU has right to revise the fees accordingly.

Pattern	Course Fee payment deadline
Semester	Fee must be paid before 30th September of the academic year

# 12. Other Regulations:

Besides the above, the common regulation of the University shall also be applicable to this programme.

# 13. Industrial Exposure:

The course is professionally the students are required to undergo industrial exposure in the 6<sup>th</sup> Semester of the programme.6<sup>th</sup> Semester training is to introduce the students to the operational aspects of a Broiler, Breeder, Layer, Feed Mill, Hatchery and Processing Plant

# SUGUNA INSTITUTE OF POULTRY MANAGEMENT UDUMALPET -642 207

# ALAGAPPA UNIVERSITY Karaikudi

# **DIRECTORATE OF COLLABORATIVE PROGRAMMES**

# **B.Sc., Poultry Science**

Revised Regulations and Syllabus
[For those who join the Course in July 2023 and after]

# SUGUNA INSTITUTE OF POULTRY MANAGEMENT UDUMALPET -642 207

### **Programme Educational Objectives (PEO):**

PGO - 1	To start Under Graduate Degree Programme in the area of Poultry
	Production Technology
PGO - 2	To fulfill the skilled man power demand of the ever growing poultry sector
PGO - 3	To educate the rural youths in the area of better employment opportunities
PGO - 4	To meet out the demand in changing scenario in Agricultural sector through
	quality education
PGO - 5	To develop an entrepreneurs in the area of poultry production management

### **Programme Specific Objectives (PSO):**

PSO – 1	Students will know all scientific information and advancements in the						
	discipline of Poultry Production Technology						
PSO – 2	Students acquire in-depth knowledge in the area of commercial poultry						
	operations and enable to become an entrepreneur / Researcher						
PSO – 3	Students will become an expert in poultry management, nutrition, breeding						
	and commercial chick production						
PSO - 4	Students gain relevant knowledge on various poultry disease control						
	measures along with farm biosecurity						
PSO - 5	Students may become the technically competent skilled technocrat in the						
	area of poultry production technology						

# Programme Outcome (PO):

PO - 1	A gaving the first demontal linear ledge and drille in the green of neutture
PU - 1	Acquire the fundamental knowledge and skills in the area of poultry
	production technology
PO – 2	Gain knowledge on the anatomy and Physiology of chicken along with chick
	production
DO 0	
PO – 3	Develop specialized knowledge and skills in commercial broiler chicken and
	table egg production
PO - 4	Acquire knowledge on the poultry breeding concepts and the production of
	commercial poultry
PO - 5	Gain information with various housing systems adopted in poultry
	production management
PO - 6	Know about the feeding systems and feed production of poultry
PO - 7	Aware on the poultry industry waste management and its mitigation
PO - 8	Gain knowledge on processing and value addition of poultry products
PO - 9	Able to assess the chicken and production economics and marketing
PO - 10	Understand the various poultry disease problem and its control measures

# **Programme Specific Outcome (PSO):**

PO - 1	Students will understand the poultry industry role in the national development
PO – 2	Students gained relevant knowledge and skill on poultry production technology
PO – 3	Students will become an employee / employer in the area of boiler chicken and table egg production
PO - 4	Students will have specialized skill in the area of poultry management, breeding, feeding and technology; which is very helpful to get better employment
PO – 5	Students will become an expert in poultry disease diagnosis and its control measures

# ALAGAPPA UNIVERSITY, KARAIKUDI NEW SYLLABUS UNDER CBCS PATTERN w.e.f.2023 -2024 B.Sc., POULTRY SCIENCE – PROGRAMME STRUCTURE

SEM	Dout	Course Code	Courses	Title of the paper	T/P	Credit	Hrs/	Max. Marks									
SEM	Part				1/1	Credit	week	Int.	Ext.	Total							
	I	80111T/H/F/ M/TU/A/S	T/OL	Tamil / Other Languages - I	Т	3	4	25	75	100							
	II	80112	Е	General English-I	T	3	4	25	75	100							
	III	80113	CC	Poultry Production Systems, Housing and Automation	Т	5	5	25	75	100							
I		80114	CC	Practical in Poultry Housing Systems and Equipment	P	4	8	25	75	100							
	111	80115	Allied	Applied Avian Anatomy and Physiology	Т	3	3	25	75	100							
		80116	Allied	Practical in Avian Anatomy and Physiology	P	2	4	25	75	100							
	IV	8011 <mark>7</mark>	SEC - I	Value Education	T	2	<mark>2</mark>	<mark>25</mark>	<mark>75</mark>	100							
		T		Total		22	30	175	525	700							
	I	80121T/H/F/ M/TU/A/S	T/OL	Tamil / Other Languages - II	Т	3	4	25	75	100							
	II	80122	Е	General English-II	T	3	4	25	75	100							
	III	Ш	80123	CC	Poultry Nutrition and Feed Milling Technology	Т	5	5	25	75	100						
II			111	111	111	ш	III	111	111	80124	CC	Practical in Poultry Nutrition and Feed Milling Technology	P	4	8	25	75
		80125	Allied	Incubation and Hatchery Management	Т	3	3	25	75	100							
		80126	Allied	Practical in Egg Incubation and Hatchery Management	P	2	4	25	75	100							
	IV	80127	SEC - II	Environmental Studies	T	2	2	<mark>25</mark>	<mark>75</mark>	100							
				Total		22	30	175	525	700							
	I	80131T/H/F/ M/TU/A/S	T/OL	Tamil / Other Languages - III	Т	3	4	25	75	100							
	II	80132	Е	General English-III	T	3	4	25	75	100							
		80133	CC	Principles of Poultry Breeding	T	3	3	25	75	100							
	III	80134	CC	Breeder Chicken Management	T	3	3	25	75	100							
		80135	CC	Practical in Principles of Poultry Breeding and Breeder Chicken Management	P	3	6	25	75	100							
		80136	Allied	Climatology and Poultry Production	Т	3	3	25	75	100							
III		80137	Allied	Practical in Climatology and Poultry Production	P	2	3	25	75	100							
		80138	SEC- III	Entrepreneurship	T	2	<mark>2</mark>	<mark>25</mark>	<mark>75</mark>	100							
				1.Adipadai Tamil/	P												
	IV	80139A 80139B	NME – I	2.Advance Tamil,	T	_		2.5	7.5	100							
		80139C		3. Skills for Employment	T	2	2	<mark>25</mark>	75	100							
				4. MOOC'S	T												

				Total		24	30	225	675	900	
	I	80141T/H/F/ M/TU/A/S	T/OL	Tamil / Other Languages - IV	T	3	4	25	75	100	
	II	80142	Е	General English-IV	T	3	4	25	75	100	
		80143	CC	Commercial Broiler Chicken Production Management	T	4	4	25	75	100	
	III	80144	CC	Poultry diseases, Flock Health and Biosecurity	T	4	4	25	75	100	
IV		80145	CC	Practical in Broiler Management and Poultry Diseases	P	3	5	25	75	100	
IV		80146	Allied	Poultry Processing and Waste Management	Т	3	3	25	75	100	
		80147	Allied	Practical in Poultry Processing and Waste Management	P	2	4	25	75	100	
				1. Adipadai /	P						
			80148A	NIME	2. Advance Tamil /	T					
	IV	80148B 80148C	NME – II	3. Small Business Management	T	<mark>2</mark>	2	<mark>25</mark>	<mark>75</mark>	100	
		001100		5. Sman Business Wanagement	1						
				4. MOOC'S	T						
				Total		24	30	200	600	800	
		80151	CC	Commercial Layer Chicken Production Management	T	4	4	25	75	100	
		80152	CC	Poultry Production Economics and Marketing	T	4	4	25	75	100	
		80153	90	Poultry Products Technology							
1		80133	CC	and Value Addition	T	4	4	25	75	100	
		80153	CC		T T	4	4	25 25	75 75	100	
V	III			and Value Addition							
V	III	80154	CC	and Value Addition  Diversified Poultry Production  Practical in Commercial Layer  Management and Poultry  Economics and Marketing  Practical in Poultry Products  Technology and Diversified  Poultry Production	T	4	4	25	75	100	
V	III	80154 80155	CC	and Value Addition  Diversified Poultry Production  Practical in Commercial Layer  Management and Poultry  Economics and Marketing  Practical in Poultry Products  Technology and Diversified	T P	4	6 6 2	25 25	75 75	100	
		80154 80155 80156	CC CC	and Value Addition  Diversified Poultry Production  Practical in Commercial Layer  Management and Poultry  Economics and Marketing  Practical in Poultry Products  Technology and Diversified  Poultry Production  Career Development /  Employability skills  Total	T P	4 4 4	4 6 6 2 30	25 25 25 150	75 75 75 450	100 100 100	
V	III	80154 80155	CC	and Value Addition  Diversified Poultry Production  Practical in Commercial Layer  Management and Poultry  Economics and Marketing  Practical in Poultry Products  Technology and Diversified  Poultry Production  Career Development /  Employability skills  Total  Internship	T P	4 4 4 24 24	6 6 2	25 25 25	75 75 75	100	
		80154 80155 80156	CC CC	and Value Addition  Diversified Poultry Production  Practical in Commercial Layer  Management and Poultry  Economics and Marketing  Practical in Poultry Products  Technology and Diversified  Poultry Production  Career Development /  Employability skills  Total	T P I	4 4 4	4 6 6 2 30	25 25 25 150	75 75 75 450	100 100 100	

T - Theory Theory 1credit = 1 hour for Theory Paper / week
P - Practical Practical 1credit = 2 hours for Practical Paper / week
Minimum Credit load for B.Sc., Poultry Science programme = 140 +

MIL - Modern Indian Language, E – English

- CC-Core course Core competency, critical thinking, analytical reasoning, research skill and team work
- ➤ Allied / GEC Exposure beyond the discipline
- ➤ SEC- Skill Enhancement Course Exposure beyond the discipline (Value Education, Entrepreneurship Course, Computer application for Science, etc.,
- NME Non Major Elective Exposure beyond the discipline
- ➤ DSE Discipline specific elective Additional academic knowledge, critical thinking, and analytical reasoning Student choice either Internship or Theory papers or Project +2 theory papers.
- ➤ If internship Marks = Internal (150 (75+75) two midterm evaluation through Viva voce + Report 150+ External Viva voce 100 = 400,
- ➤ If Project Marks = Internal 25 + Thesis -+ Viva voce = 75 = 100 and + 3 theory paper = 300 = 400
- Extension activity and MOOCs Voluntary basis

# **Course Structure for B.Sc., Poultry Science Programme**

			Semester l						
CC/DSE/N	ME/ SEC/ Tami	1	Tamil		Credits	H/W	T/P		
Course Co	ode: 80111	т தமிழ் இ	லக்கியவர	லாறு - 1	3	4	T		
Objecti ves	தாண்டுதல்.  • தமிழ் இலக்கியம் சார்ந்த போட்டித்தேர்வுகளுக்கு ஏற்ப கற்பித்தல் நடைமுறைகளை மேற்கொள்ளுதல்.								
Unit - I	தமிழ்இலக்கிய, இலக்கணவரலாறு அறிமுகம்.  1. இலக்கணம்; அ.தொல்காப்பியம், இறையனார் களவியல் உரைநம்பியகப் பொருள், புறப்பொருள் வெண்பாமாலை, நன்னூல், தண்டியலங்காரம், யாப்பருங்கலக்காரிகை- நூல்கள் ஆ.மொழிப்பயிற்சி-ஒற்றுப்பிழைதவிர்த்தல்  வல்லினம்மிகும் இடங்கள் வல்லினம்மிகா இடங்கள் நேரூற்றுவரும் இடங்கள் நேரூஓர்வரும் இடங்கள் தான், தாம்வரும் இடங்கள் தான், தாம்வரும் இடங்கள் மயிற்சி: வல்லினம்மிகும்இடங்கள் பயிற்சி: வல்லினம்மிகும்இடங்கள் பயிற்சி: வல்லினம்மிகும்இடங்கள் பயிற்சி: வல்லினம்மிகும்இடங்கள் பயிற்சி: வல்லினம்மிகும்இடங்கள், மிகா இடங்கள் தவறாக வரும் வகையில் ஒரு பத்தி கொடுத்த   ஒற்றுப்பிழை திருத்தி எழுதச்செய்தல் 2.சங்க இலக்கியம் - எட்டுத்தொகை, பத்துப்பாட்டு 3.அறஇலக்கியம் பதினெண்கீழ்கணக்கு நூல்கள் 4.காப்பிய இலக்கியம் - ஐம்பெருங்காப்பியங்கள், ஐஞ்சிறுகாப்பியங்கள், சமயக்காப்பியங்கள் 5.பக்தி இலக்கியமும் (பன்னிருதிருமுறைகள், நாலாயிரதிவ்வியப்பிரபந்தம் – பகுத்தறிவு இலக்கியமும்								
Unit - II	\()(சித்தர் இலக்கியங்கள், புலவர் குழந்தையின் இராவண காவியம்) சங்க இலக்கியம் எட்டுத்தொகை: 1.நற்றிணைமுதல்பாடல் -நின்றசொல்லர் 2.குறுந்தொகை 3 ஆம்பாடல் -நிலத்தினும்பெரிதே 3.ஐங்குறுநூறு-நெல்பலபொலிக! பொன்பெரிதுசிறக்க! (முதல்பாடல்) வேட்கைப்பத்து. 4.கலித்தொகை 51 அடர்த்தொடீஇக்கேளாய்குறிஞ்சிக்கலி 5.புறநானூறு -189 தெண்கடல்வளாகம்பொதுமையின்றி, நாடாகொன்றோ 187 பத்துப்பாட்டு, 1.முல்லைப்பாட்டு (முழுவதும்)								
Unit -	அறஇலக்	வ்யக்							

III	1.திருக்குறள் -அறன்வலியுறுத்தல்அதிகாரம்
	2.நாலடியார்-பாடல்: 131 (குஞ்சியழகும்)
	3.நான்மணிக்கடிகை-நிலத்துக்குஅணியென்ப
	4.பழமொழி நானூறு தம்நடைநோக்கார்
	5.இளியவைநாற்பது 37. இளமையைமூப்புஎன்று
	காப்பியஇலக்கியம்
	1.சிலப்பதிகாரம் - வழக்குரைகாதை
Unit -	2. மணிமோலை பாத்திரம்பெற்றகாதை
IV	3 பெரியபுராணம் - பூசலார்நாயனார்புராணம்
1 V	4. கம்பராமாயணம்குகப்படலம்
	5. சீறாப்புராணம்- மானுக்குப்பீணைநின்றபடலம்
	6. இயேசுகாவியம் -ஊதாரிப்பிள்ளை
	பக்திஇலக்கியமும், பகுத்தறிவுஇலக்கியமும்
	பக்திஇலக்கியம்
	1. திருநாவுக்கரசர்தேவாரம் –
	நாமார்க்கும்குடியல்லேம்எனத்தொடங்கும்பாடல்மட்டும்
	2. மாணிக்கவாசகர்திருவாசகம் –
	நமச்சிவாயவாஅழ்கநாதன்தான்வாழ்கமுதல்சிரம்குவிவார்ஓங்குவிக்கும்
	சீரோன்கழல்வெல்கவரை.
	3. பொய்கையாழ்வார்-வையந்தகளியாவார்கடலே
Unit - V	4. பூதத்தாழ்வார்-அன்பேதகளியா
Onit - V	5. பேயாழ்வார்-திருக்கண்டேன்பொன்மேனிகண்டேன்
	6. ஆண்டாள் - திருப்பாவைமார்கழித்திங்கள் (முதல்பாடல்)
	பகுத்தறிவுஇலக்கியம்;
	திருமூவர் - திருமந்திரம் (270,271, 274, 275285) * பட்டினத்தார்-
	திருவிடைமருதூர் (காடேதிரிந்து - எனத்தொடங்கும்பாடல்
	பா.எண 279 280) கடுவெளிசித்தர்பாபஞ்செய்யாதிருமனமே
	(பாடல்முழுவதும்) இராவணகாவியம் - தாய்மொழிப்படலம் 18.
	எடுகையில்லாரில்லைமுதல் 22
	செந்தமிழ்வளர்த்தார். வரை
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#### **References:**

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- மது.ச.விமலானந்தன், தமிழ் இலக்கியவரலாறு,
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- தமிழண்ணல், புதிய நோக்கில் தமிழ் இலக்கிய வரலாறு,
- மீனாட்சி புத்தக நிலையம், மதுரை.
- தமிழ் இலக்கிய வரலாறு -முனைவர்சிற்பிபாலசுப்ரமணியம்,
- முனைவர்.சொசேதுபதி.
- புதிய தமிழ் இலக்கியவரலாறு- முனைவர் சிற்பி பாலசுப்ரமணியம்,
- நீல.பத்மநாபன்.
- தமிழ் இலக்கியவரலாறு டாக்டர்.அ.கா.பெருமான்.
- தமிழ் இலக்கியவரலாறு-முனைவர்ப.ச.ஏசுதாசன்
- தமிழ் இலக்கியவரலாறு முகுமார்
- வகைமை நோக்கில் தமிழ் இலக்கிய வரலாறு-பாக்கிய மேரி
- தமிழ் பயிற்றும் முறை, பேராசிரியர் நசுப்புரெட்டியார் –
- மணிவாசகர் பதிப்பகம், சிதம்பரம்

Outco > சங்க இலக்கியத்தில் காணப்பெறும் வாழ்வியல் சிந்தனைகளை

me:	அறிந்துகொள்வர்.
	🕨 அற இலக்கியம் மற்றும் தமிழ்காப்பியங்களின் வழிவாழ்வியல்
	சிந்தனையைப்பெறுவர்.
	🕨 பக்தி இலக்கியங்களைக் கற்பதன் மூலம்பக்தி நெறியினையும்,
	பகுத்தறிவு இலக்கியங்களைக் கற்பதன் வழிநல்லிணக்கத்தையும்
	தெரிந்துபின்பற்றுவர்.
	🕨 மொழியறிவோடுசிந்தனைத்திறனைப்பெறுவர்.
	<ul><li>மொழிப்பயிற்சிக்குத்தேவையானஇலக்கணங்களைக்கற்பர்.</li></ul>

		Semester I						
Tamil / OL		Hindi	Credits	H/W	T/P			
Course Code:	80111H	हिन्दीकासामान्यज्ञानऔरव्याकरण	3	4	Т			
Objectives	<b>1.</b> हिन्दीकेबुनि	। यादीज्ञानकेसाथ-साथहिन्दीउच्चारणकाप्रशिक्षणदेना						
,	2.वाक्यरचना							
	3.गद्यांशकापट							
Unit - I	बुनियादीहिर्न्द	ो : * स्वर * व्यंजन * बारहखडी –*शब्द*वाक्यरचन	T					
Unit - II	हिन्दीशब्दावर	<b>ती</b> : * रिश्तोंकेनाम * घरेलूपदार्थोंकेनाम						
Unit - III		* साधारणवाक्यऔरसंज्ञा * सर्वनाम * विशेषण * क्रिय	ग					
Unit - IV	छोटेगद्यांशक	<b>ापठन :</b> * बच्चोंकीकहानियाँ * पत्र-पत्रिकाओंमेंप्रकाशि	ात					
	गद्यांशकापठन							
Unit - V	<b>निबंध</b> : * संर्ता	तेरुवल्लुवर * ईवेरातंदैपेरियार * नारीशक्तिकरण * । निप्रतियोगीपरीक्षाओंकेबारेमेंजानकारीदेना	<b>ग्यांवरणसंरक्षण</b>					
	* विभिन	[नप्रतियोगीपरीक्षाओंकेबारेमेंजानकारीदेना						
References	: 1. हिन्दीकेअ	व्ययवाक्यांश - चतुर्भुजसहाय						
2.	सुबोधहिन्दीव्य	ाकरण – फ़ूलचंदजैन						
		याकरण -कामताप्रसाद						
	व्यवहारिकहिन							
		व्याकरन – नागप्पा						
	व्याकरणप्रदीप							
	लघुबालकथाएँ							
8.	मनोरंजककहा	नियाँ - प्रेमचंद						
9	. Concise Gr	rammar of the Hindi Language - H.C S	cholberg					
1		mmar - Edwin Greaves						
Outcome:		ध्विनयोंसेपरिचयकराना						
	• •	मिंवाक्यरचना						
		3. हिन्दीशब्दावलियोंकाज्ञान-ग्रहण						
		4. कहानियोंवअन्यगद्यांशोंकापठन						
		गोगीपरीक्षापरआधारितनिबंधोंद्वाराभाषा						
		मताबढानेवालेप्रशिक्षणकार्य						

		Semester I					
CC/DSE/NN OL / E	ME/ SEC/ T /	English	Credits	H/W	T/P		
Course Code:	80112	General English - I	3	4	T		
Objectives	in various 2. To help 3. To assis	le learners to acquire self-awareness and as life situations. them acquire the attribute of empathy t them in acquiring creative and critical the them to learn the basic grammar	•	C	required		
	5. To assis	t them in developing LSRW skills					
Unit - I	Self-Awareness (WHO) and Positive Thinking (UNICEF) Life Story  1.1 Chapter1 from Malala Yousafzai,Iam Malala 1.2 An Autobiography or The Story of My Experiments with 1.3 Truth(Chapters1,2&3) M. K. Gandhi Poem 1.3WheretheMind is Without Fear— Gitanjali 35— Rabindranath Tagore 1.4 Love Cycle—Chinua Achebe						
Unit - II	Empathy Poem 2.1 Nine Go 2.2 Alice Fe Short Story 2.3 The Sch	old Medals–David Roth ll or poverty–William Wordsworth nool for Sympathy–E.V.Lucas ning– William Faulkner					
Unit - III	Poem 3.1 The Thir 3.2 Stopping Readers The 3.3 The Mag Stories on S	Creative Thinking  Ings That Haven't Been Done Before–Edg  By the Woods on a Snowy Evening–Robe  Peatre  Gic Brocade–A Tale of China  Stage – Aaron Shepard (Three Side was Louis Sachar)	pert Frost	s from \	Vayside		
Unit - IV	Part of Spee 4.1 Articles 4.2 Noun 4.3 Pronoun 4.4 Verb 4.5 Adverb 4.6 Adjective Preposition	ch					
Unit - V	Paragraph a 5.1 Descripti 5.2 Exposito 5.3 Persuasiv 5.4 Narrative	ry ve					

#### References

### **Text books (Latest Editions)**

MalalaYousafzai. I am Malala, Little, Brown and Company, 2013.

M.K. Gandhi. An Autobiography or The Story of My Experiments with Truth (Chapter – I), Rupa Publications, 2011.

Rabindranath Tagore. "Gitanjali 35" from Gitanjali (Song Offerings): A Collection of Prose Translations Made by the Author from the Original Bengali.

MacMillan, 1913.

N.Krishnasamy. Modern English: A Book of Grammar, Usage and Composition Macmillan, 1975.

Aaron Shepard. Stories on Stage, ShepardPublications, 2017.

J.C. Nesfield. English Grammar Composition and Usage, Macmillan, 2019.

#### Web Resources

MalalaYousafzai. I am Malala (Chapter 1) https://archive.org/details/i-am-malala

M.K Gandhi. An Autobiography or The Story of My Experiments with Truth(Chapter-1)-

Rupa Publication, 2011 https://www.indiastudychannel.com/resources/146521- Book-Review-An-Autobiography-or-The-story-of-my-experiments-with- Truth.aspx

Rabindranath Tagore. "Gitanjali 35" from Gitanjali Offerings) (Song https://www.poetryfoundation.org/poems/45668/gitanjali-35

Aaron Shepard. Stories on Stage, Shepard Publications, 2017https://amzn.eu/d/9rVzlNv

Manual JC Nesfield. of English Grammar and Composition. https://archive.org/details/in.ernet.dli.2015.44179

#### **Outcome:** On completion of this course, students will: 1. Acquire self -awareness and positive thinking required in various life situations 2. Acquire the attribute of empathy. 3. Acquire creative and critical thinking abilities.

- 4. Learn basic grammar
- 5. Development and integrate the use of four language skills i.e., listening, speaking, reading and writing.

		Semester I					
CC/DSE/NN	IE/ SEC	Core Course		Credits	H/W	T/P	
Course	80113	80113 Poultry Production Systems, Housing and 5 5					
Code:		Automation					
Objectives		and the existing various poultry production	-				
		knowledge on the requirements of poultry		g system			
		n the construction of different housing sys					
		in depth knowledge on the equipment for					
		ce the importance of automation in poultry	/ prodi	uction			
Unit - I		oultry Rearing:					
		action terminology - Systems of poultry					
		tem - Intensive system of poultry reari					
		ganic poultry production system- All in A					
		sing systems - Floor space - Watering a	nd Fe	eding spac	e requiren	nents fo	
		groups of poultry					
Unit - II	Poultry Farm					~ ^	
		location – Macro and Micro environment					
		tance of poultry housing and equipment	– Pou	Itry Farm	Plan and	Layout	
TT */ TTT	Construction of poultry house						
Unit - III	Poultry Hou		4 1	: C1-	44 - 1 - 1		
		Poultry housing systems - Open sided house - Deep litter housing - Slatted floor system - Cage houses and Raised platform cage houses - Environmentally Controlled housing					
		system - Fundamentals of ventilation - Tunnel and Duct ventilation - Pad cooling - Litter					
Unit - IV	materials – Roof types and Roofing materials – Insulation materials – R Value  Poultry Farm Equipment:						
Umit - IV	•	n Equipment: s of cages – Conventional, Californian an	d Dott	omi oo gog	" A " trm	2 20 725	
		ges - Flat deck cages - Furnished cages -					
		Watering equipment – Nest box – Egg Filler flats - Dubbing and Debeaking equipment – Vaccinators – Curtains – Foggers and sprinklers – Transport crates – Fumigation					
	equipment – AI equipment - Sprayers – Shovels and Racks – Ventilators and ex						
	- Flame gun						
Unit - V	Automation:						
CIIIC V		- Concept and applications of automation	in pou	ltry produc	ction - Au	tomatio	
		ousing – Automation in feeding and wat					
		nd egg grading system – Automation					
		n feed production- Automation in Hatch					
	and Meat Pro		J		1	25	
Reference ar	nd Text books						

# **Reference and Text books:**

Hurd M. Louis, 2003. *Modern Poultry Farming*. 1<sup>st</sup> Edition. International Book Distributing Company, Lucknow

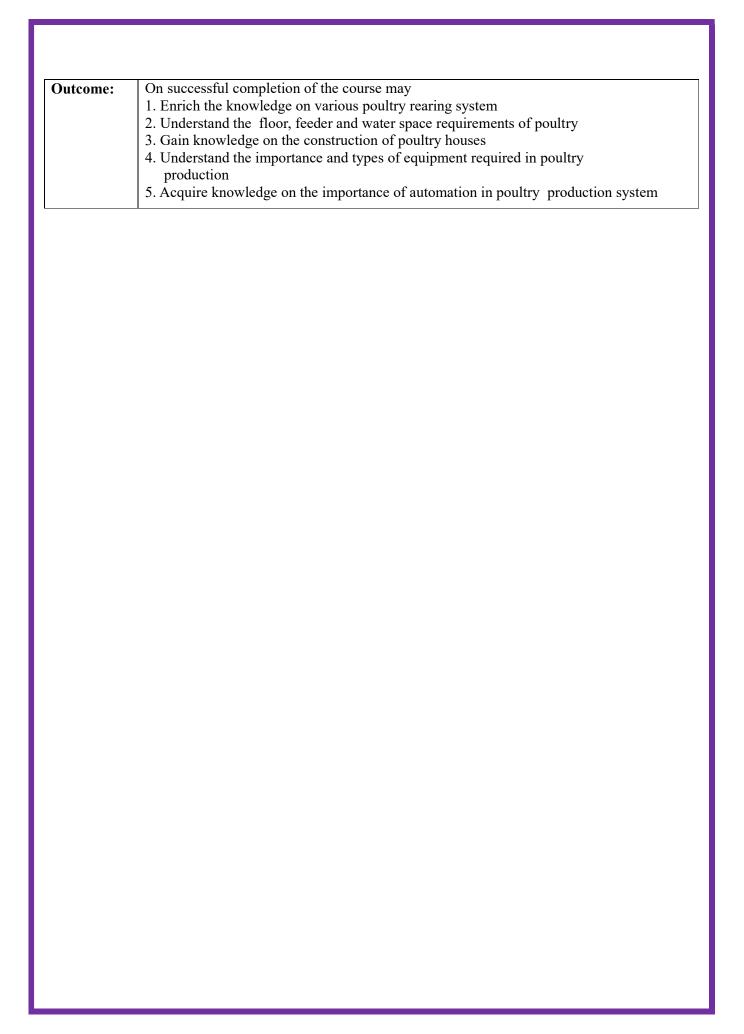
Mountney J. George and Parkhurst R. Carmen, 2001. *Poultry Products Technology*. 1<sup>st</sup> Edition. The Harwoth Press Inc., USA.

Narahari D., and Kumararaj R., 2008. *Handbook of Applied Broiler Production*. 1<sup>st</sup> Edition. Poultry Punch Publication (I) Pvt. Ltd., New Delhi, India.

Sreenivasaiah., P. V., 2015. Textbook of Poultry Science. 1st Edition. Write & Print Publications, New Delhi

Jull A. Morley, 2007. *Successful Poultry Management*. 2nd Edition. Biotech Books, New Delhi. Jadhav N. V., and Siddique M. F., 2007. *Handbook of Poultry Production and Management*. 2<sup>nd</sup> Edition.

Jaypee Brothers Medical Publishers Pvt. Ltd., New Delhi.



	Semester I						
CC/DSE/NN	ME/ SEC	Cor	Course		Credits	H/W	T/P
<b>Course Cod</b>	e: 80114	Practical in Poul	try Housing	Systems	4	8	P
		and Equipment					
Objectives		and the existing vari					
		knowledge on the va					
		n the construction of		~ ,			
		e in depth knowledge					
1		ce the importance an			ion in poul	try produ	iction
1.		r and Water Space re					
2.		gn and Construction					
3.	•	ign and Construction		se			
4.		ges, Specification and					
5.		als and its Managem	ent				
6.	Brooding Eq		1,				
7.		ders and Drinkers fo					
8.		Dubbing, Vaccinating	equipment				
9.	Visit to Deep						
10.	Visit to Cage						
11		ed floor house	1 7 7				
12.		Visit to Environmentally Controlled House					
13.	Visit to Feed		. 1 .				
14.		ry Egg and meat Pro	cessing plant				
15.		Visit to a Hatchery Successful completion of the course, the students may					
Outcome:		*		•			
		he knowledge on var d the floor, feeder ar				11+007	
		the knowledge on the				шиу	
		d the importance and				ault <b>r</b> sz	
	production		types of equi	ipineni requ	incu ioi pe	ruiti y	
		l awareness and impo	rtance of auto	omation in	noultry		
	production		rance or aut	omation m	pounty		
	1 1 2 4 4 4 1 1 1	, =					

	Semester I						
CC/DSE/NN	ME/ SEC	Allied Course	Credits	H/W	T/P		
Course Code:	80115 Applied Avian Anatomy and Physiology 3 3						
Objectives	1. To create	1. To create awareness on the physiological standards of avian species					
		2. To impart knowledge on the external anatomy of chicken					
	_	t knowledge on respiratory and circulatory sys					
		e in depth knowledge on digestive and reprodu		tem			
		the scientific knowledge on Chicken egg for	mation				
Unit - I	External A	•	1 6 1:	1 -	. 1		
		- Terminology - Classification and bree					
		Integumentary parts of chicken - Feather parts of chicken - Feather Sealer					
		rn of chicken - Role of skin, Feather, Scales,	Naiis, Piu	mage and	і Веак		
Unit - II	in poultry  Pospirator	y and Circulatory System:					
Omt - 11		system - Anatomical structures - Nasal	cavity	larvny S	Syring		
		onchi, Lungs, Air sacs and its function -	•	•	•		
		rculatory system - Structure, Functions of hea					
		nents of blood	, 1, 1, pes	,1 01004 1	000010		
Unit - III	•	d Excretory System:					
		stem - Different types of bones - Pneuma	itic, Medu	llary, Ce	rvical,		
		used, Wing and Limb bones - Excretory s					
	ureter and C	loaca – Muscular system of chicken			•		
Unit - IV	Digestive a	nd Reproductive System:					
	Digestive s	ystem - Anatomical structure and its function	s – Reprod	uctive sy	stem -		
	Male and Female reproductive system - Structure and its function- Physiology of						
		ion - Egg structure and its composition					
Unit - V		d Endocrine System:					
		stem - Endocrine system - Immune system					
		ts Functions - Bone marrow, Bursa of Fabr					
	gland, Spleen and Gut Associated Lymphoid Tissues (GALT) - Principles of						
	poultry beha	1 , 5	cnicken -	Physioic	ogy of		
Defenence	stress and ac	•					
		s: L., and Joshi S. K., 2015. <i>A Handbook on An</i>	atomi & 1	Physiolog	n of		
			•	nysiolog	y of		
	Domestic Animals and Birds. Sathish Serial Publishing House, New Delhi, India. Ensmiger. M. E., 2015. <i>Poultry Science</i> . 3rd Edition. International Book Distribution Co.						
Lucknow, In		Touring Science. 31d Edition. International	DOOK D	Stroution	1 00.,		
		eaver D. William Jr., 2007. Commercial	Chicken I	Meat and	d Egg		
	Production. 5th Edition. Springer India Pvt. Ltd., Noida.						
	ingh, R. A., 2011. <i>Poultry Production</i> . 3rd Edition. Kalyani Publishers, New Delhi.						
Outcome:		ful completion of the course, the students ma					
		nd the Avian Anatomy and Physiology	-				
		n depth knowledge on Digestive system					
	_	knowledge on Reproductive system					
		nd the external parts and its importance in po	-				
	5. Gain kno	wledge on the functions of Nervous and Endo	crine syste	m			

	Semester I						
CC/DSE/NI SEC	ME/	Allied Course	Credits	H/W	T/P		
Course	80116	Practical in Avian Anatomy and Physiology	2	4	P		
Code:							
Objectives	1. To cre	eate awareness on the breeds of chicken					
		part knowledge on the anatomy of poultry					
		derstand the normal physiological standards of ch					
	_	ovide in depth knowledge on Digestive and reprod	•	n			
		eate the scientific knowledge on egg and meat product	duction				
1.		classification and Breeds of chicken					
2.	Types of						
3.	Normal	physiological value of chicken					
4.	Differen	Different types of feather and its function					
5.	Skeletal	System of fowl					
6.		e System of fowl					
7.		d Female reproductive system of fowl					
8.		on of egg					
9.	Egg stru	Egg structure and its composition					
10.	Immune	Immune system of fowl					
<b>Outcome:</b>	On Succ	essful completion of the course, the students may	,				
	1. Under	1. Understand the Avian Anatomy and Physiology					
	2. Acqui	red in depth knowledge on Digestive system					
		oped knowledge on egg formation and its compo-					
		stand the external parts and its importance in pour	•				
	5. Create	ed awareness on the physiological standards of chi	cken				

		Semester I			
CC/DSE/NM	IE/ SEC/ T /	SEC	Credits	H/W	T/P
OL/E					
Course Code		Value Education	2	2	T
Objectives		npart humanism values among the student un		s religious tl	noughts
		ake them awareness of ethics and civil rights			
		miliarities the students with basic features of			
		and NCC and relevance of Abdul Kalam and	Mother To	eresa efforts	to teach
	value		٠,٠	1 .	
	4. 10 in	npart skills by preparing project works such a	is writing p	oems and s	tories
Unit - I		Need for Value Education – How Important			
		stic Movement in the World and in India -			_
		r Various Religions Like Hinduism, Buddhis			
		es for Teaching Value Education in India –	National	Resource C	entre for
	Value	NCEDT HTC and ICNOH			
Unit - II		Education – NCERT– IITS and IGNOU.			
Unit - II		Vedic Period:			
		Influence of Buddhism and Jainism – Hindu Dynasties – Islam Invasion – Moghul Invasion – British Rule – Culture Clash – Bhakti Cult – Social Reformers – Gandhi –			
	Swami Vivekananda – Tagore – Their Role in Value Education.				
Unit - III		s – After Independence:			
		Independence – Democracy – Equality – Fundamental Duties–Fall of Standards in All			
		ial, Economic, Political, Religious and En			
	Society. Pol	itics Without Principle-Commerce Withou	ut Ethics—	Education V	Without
		cience Without Humanism-Wealth Withou			
	Conscience–Prayer Without Sacrifice–Steps Taken by The Governments – Central and				
** ** ***		emove Disparities on the Basis of Class, Cred	ed, Gender	•	
Unit - IV		ation on College Campus:	Enga Atm	a andrana - E	
		om School to College – Problems –Control - License – Need for Value Education –Way		-	
		- Extra-Curricular Activities - N.S.S., N.C.		_	_
	_	Abdual Kalam's Effortsto Teach Values—Mo		cuvines ice	ic variec
	Teresa.	Trouble Training S Erroristo Touch values 111	3 01101		
Unit - V	Project Wor	·k			
		ng Details about Value Education from	m Newspa	apers, Journ	nals and
	Magazi	nes.	•		
		Poems, Skits, Stories Centering on Value-En	osion in So	ociety.	
		ng Personal Experience in Teaching Values.			
	4. Suggest	ing Solutions to Value –Based Problems on t	the Campus	S.	
References					

Chakrabarti, M. (1997). Valueeducation: changing perspectives. Kanishka Publishers.

Eknath Ranade (1991). Swami Vivekananda's Rousing Call to Hindu Nation. Centenary PublicationKarabi Kakoti, ValueEducation – Need of the Hour.

Radhakrishnan, S. (1968). Religion and culture. Orient Paperbacks, New Delhi

 $Saras wathi, T.S. (Ed.). (1999). {\it Culture, socialization and human development:}$ 

Theory, research and applications in India. SAGE Publications Pvt. Limited.

Satchidanand	a, M. K. (1991). Ethics, education, Indian unity and culture. Ajanta Publications, Delhi.
Venkataiah,N	J. (Ed.).(1998). Value education. APH Publishing, New Delhi.
Outcome:	After studied, the student will be able to
	1. Knowledge about Humanism and Humanistic Movement in the World and in
	India
	2. Understand the Social Reformers and Their Role in Value Education
	3. Explore the theories of Fundamental Duties, Ethics, Extra-Curricular Activities –
	N.S.S.,N.C.C
	4. Know the concept of Value Education on College Campus, Project Work
	regarding
	5. Writing Poems, Skits, Stories Centering on Value- Erosionin Society

Semester II						
CC/DSE/NME/ SEC/ Tamil Tamil Credits H/W T/						T/P
Course Cod	le: 80121	T தமிழ்இலச்	கியவரலாறு-2	3	4	Т
Objectives	<ul> <li>முதலாமாண்டுப்பட்டவகுப்புமாணவர்களுக்குத்தமிழ்மொழிஇலக்கியங்களைஅ றிமுகம்செய்தல்.</li> <li>தமிழ்இலக்கியப்போக்குகளையும், இலக்கணங்களையும்மாணவர்அறியுமாறுசெய்துஅவர்களின்படைப்பாற்றலைத் தூண்டுதல்.</li> <li>தமிழ்இலக்கியம்சார்ந்தபோட்டித்தேர்வுகளுக்குஏற்பகற்பித்தல்நடைமுறைகளை மேற்கொள்ளுதல்.</li> </ul>					
Unit - I	<ul> <li>தமிழ்இலக்கியவரலாறுஅறிமுகம்.</li> <li>1.சிற்றிலக்கியம்; குறவஞ்சி, கலம்பகம், உலா, பரணி, பள்ளு, பிள்ளைத்தமிழ், தூது, அந்தாதி.</li> <li>2.தனிப்பாடல்அறிமுகம்</li> <li>3.இக்காலஇலக்கியம்கவிதை, சிறுகதை, நாடகம், உரைநடை, திராவிடஇயக்கம்வளர்த்ததமிழ்.</li> </ul>					
Unit - II	<ul> <li>சிற்றிலக்கியக்கமும்,தனிப்பாடலும்</li> <li>சிற்றிலக்கியம்</li> <li>கலிங்கத்துபரணி. விருந்தினரும்வறியவருநெருங்கியுண்ணரும்முதல்கேட்பாரைக்காண்மின்காண்மீன் – வரை.</li> <li>திருக்குற்றாலக்குறவஞ்சி - வாளரங்கள்கனிகொடுத்து.</li> <li>முக்கூடற்பள்ளு - ஆற்றுவெள்ளம்நாளைவரத்.</li> <li>அபிராமிஅந்தாதி- கலையாதகல்வியும்குறையாதவயதும் (பதினாறுசெல்வங்கள்</li> <li>திருவரங்கக்கலம்பகம் - மறம் -பின்னைப்பெருமாள்ஐயங்கார் பேசவந்ததூதசெல்லரித்தஓலைசெல்லுமோ</li> <li>தமிழ்விடுதூதுமுதல்பத்துகண்ணிகள்.</li> <li>தனிப்பாடல்;</li> <li>*வான்குருவிபின்கூடு - ஒளவையார்.</li> </ul>					வங்கள்) யங்கார்-
	டேகா • *இப்ப	ணக்குக்கும்யானைக்கும எமேகப்புலவர். ம்வான்எல்லைஇராமன ம்நாராய்சத்திமுத்தப்பு	னையேபாடி-வீரராக		சக்கும்மூரி	த்தண்
Unit - III	இக்காலஇலக்கியம்- 1  1. பாரதியார்பாரதசமுதாயம்வாழ்கவே.  2. பாரதிதாசன்சிறுத்தையேவெளியில்வா.  3. நாமக்கல்கவிஞர்-கத்தியின்றி.					

	4. தமிழ்ஒளி - மீன்கள் (அந்திநிலாபார்க்கவா).						
	4. தமழஔ் - மன்கள் (அந்தந்லாபாாக்கவா). 5. ஈரோடுதமிழன்பன் - எட்டாவதுசீர் (வணக்கம்வள்ளுவ ).						
	சிறுகதைகள்						
	1. புதுமைப்பித்தன் – கடிதம்.						
	2. ஜெயகாந்தன் -வாய்ச்சொற்கள் (மாயைபயக்கம்தொகுப்பு).						
	3. ஆர்சூடாமணிஅந்நியர்கள்.						
	உரைநடை:						
	1. மு.வகடிதங்கள் - தம்பிக்குநூலில்முதல்இரண்டுகடிதங்கள்.						
	இக்காலஇலக்கியம்-2						
	1.தந்தைபெரியார் - திருக்குறன்( மாநாட்டு) உரை						
	2.பேரறிஞர்அண்ணா-இரண்டாம்உலகத்தமிழ்மாநாட்டுஉரை						
	3.கலைஞர்மு. கருணாநிதி - தொல்காப்பியபூங்கா -எழுத்து -முதல்நூற்பாகட்டுரை.						
	நாடகம் / திரைத்தமிழ்						
Unit - IV	1.வேலைக்காரி –திரைப்படம்.						
	2.ராஜா ராணி -சாக்ரடீஸ் -ஓரங்க நாடகப்						
	இதழியல் தமிழ் :						
	ு குறது						
	்.   1. செம்மொழி வரலாற்றில் சில செப்பேடுகள்.						
	பொழிப் பயிற்சி சொல் வேறுபாடு / பிழை தவிர்த்தல்						
	● வாசிப்பது- வாசிப்பவர்						
	• சுவர்-சுவரில்						
	• வயிறு வயிற்றில்						
	கோவில்-கோவில்						
	• கறுப்பு கருப்பு						
	• இயக்குநர்-இயக்குனர்						
	சில்லறை சில்லரை     சுல்லரை						
Unit - V	முறித்தல் – முரித்தல்						
	மனம்-மளக- மனது     வரசில் வரசாகவையில்						
	அருகில்-அருகாமையில்     அக்கரை அக்கறை						
	<ul><li>மங்கலம்-மங்களம்.</li></ul>						
	பயிற்சி						
	<ul> <li>பிழையான சொற்களை ஒரு பத்தியில் கொடுத்து அந்தப் பிழையான</li> </ul>						
	சொற்களைச் சரியாகஎழுதச் செய்தல்.						
	் சிறிய பத்தி ஒன்றை ஆங்கிலத்தில் கொடுத்து அதனைத் தமிழில்						
	் நிபெயர்க்க வைத்தல்.						
1	I .						

### References:

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- மது.ச.விமலானந்தன், தமிழ்இலக்கியவரலாறு, மீளாட்சிபுத்தகநிலையம், மதுரை.
- தமிழண்ணல், புதியநோக்கில்தமிழ்இலக்கியவரலாறு, மீனாட்சிபுத்தகநிலையம், மதுரை.

- தமிழ்இலக்கியவரலாறு -முனைவர்சிற்பிபாலசுப்ரமணியம், முனைவர்.சொசேதுபதி.
- புதியதமிழ்இலக்கியவரலாறு- முனைவர்சிற்பிபாலசுப்ரமணியம், நீல.பத்மநாபன்.
- தமிழ்இலக்கியவரலாறு டாக்டர்.அ.கா.பெருமான்.
- தமிழ்இலக்கியவரலாறு-முனைவர்ப.ச.ஏசுதாசன்
- தமிழ்இலக்கியவரலாறுஸ்ரீகுமார்
- வகைமைநோக்கில்தமிழ்இலக்கியவரலாறு-பாக்கியமேரி

தமிழ்பயிற்றும்முறை, பேராசிரியர்நசுப்புரெட்டியார் - மணிவாசகர்பதிப்பகம், சிதம்பரம்

# Outcome:

- 1. சிற்றிலக்கியங்களின்வழிஇலக்கியச்சுவையினையும்பண்பாட்டுஅறிவினையும்பெறு வர்.
- 2. புதுக்கவிதைவரலாற்றினைஅறிந்துகொள்வர்.
- 3. திராவிடஇயக்கஇலக்கியங்களைக்கற்பதன்மூலம்மொழிஉணர்வுஉணர்வு, சமத்துவம்சார்ந்தசிந்தனைகளைப்பெறுவர்.
- தமிழ்மொழியைப்பிழையின்றிஎழுதவும்,
   புதியகலைச்சொற்களைஉருவாக்கவும்அறிந்துகொள்வர்.
- **5.** போட்டித்தேர்வுகளில்வெற்றிபெறுவதற்குத்தமிழ்ப்பாடத்தினைப்பயன்கொள்ளும்வ கையில்பயிற்சிபெறுவர்.

	Semester II					
Tamil / OL		Hindi	Credits	H/W	T/P	
Course	80121H	कहानी, एकांकीऔरव्याकरण	3	4	T	
Code:						
Objectives	1. हिन्दी	कथासाहित्यसेपरिचयकराना				
	<b>2.</b> कहार्रि	नेयोंवएकांकिकेमाध्यमसेसामाजिकमूल्योंकापाठन	Ŧ			
	3. व्याक	रणकाव्यावहारिकप्रयोग				
Unit - I	हिन्दीकथा-स	<b>ाहित्यपरिचय</b> : * कहानीकेतत्व * हिन्दीकेप्र	। <u>मुखकहा</u> नी	कारोंकापरि	रचय *	
		* हिन्दीकेप्रमुखएकांकीकारोंकापरिचय				
Unit - II	हिन्दीकहानि	<b>याँ :</b> * प्रेमचंद	वोतेराघरयह	मेराघर	*	
	पिता – ज्ञानरं	ज <b>न</b>				
Unit - III	हिन्दीएकांर्क	: * लक्ष्मीकास्वागत * विभाजन 🗕 विष्णुप्रभाकर	* माँ-बाप -	श्रीविष्णु		
Unit - IV	व्याकरण	: * क्रियाविशेषण * संबंधबोधक	* स	मुच्चयबोधव	<u></u>	
	विस्मयादिबोध	कआदिशब्दोंकाप्रयोग				
Unit - V	प्रतियोगीपरी	<b>क्षापरआधारित :</b> * तमिलभाषा -	- महाक	विभारतिया	₹ *	
	संकेतविकास	द्वारालेखनकलाऔरकहानीलेखन * गद्यांश	देखकरसही	शीर्षकचुनन	स −	
		गपरआधारितवाक्यरचना * विभिन्नप्रतियोग		· ·		
References	आठएकाँकी	<b>गटक</b> - डॉरामकुमारवर्मा				
दसएकाँकी	•	G				
Outcome:	1. हिन्दी	कथासाहित्यकापरिचयमिलताहै।				
		नेयोंद्वारासामाजिकमूल्यसिखायाजाताहै।				
		गसोंकेपठन्सेआलोचनात्मकक्षमतामेंविकास।				
		रणकाव्यावहारिकप्रयोग।				
			क्षणकार्य।			
	3. 711114	THE PROPERTY OF STREET, STREET	41 1711			
<u> </u>	1					

		Semester II			
CC/DSE/NM / OL / E	IE/ SEC/ T	English	Credits	H/W	T/P
Course Code:	80122	General English - II	3	4	Т
Objectives	1. To n	nake students realize the importance of re	esilience		
	2. To e	nable them to become good decision mak	ers		
	3. To e	nable them to imbibe problem-solving sk	ills		
		nable them to use tenses appropriately			
	5. To h	elp them use English effectively at the wo	ork place.		
Unit - I	Resilience				
	Poem				
	1.1 Don't Q	uit– Edgar A. Guest			
		re–Langst on Hughes			
	Short Stor	•			
		Trouble –R.K. Narayan			
	-	nkle-Washing tonIrving			
Unit - II	Decision M	S .			
	Short Story				
	_	Scribe – Kristin Hunter			
		Lady or the Tiger - Frank Stockton			
	Poem				
		Road not Taken – Robert Frost			
		ke – D. H Lawrence			
Unit - III	Problem So	_			
	Prose life S				
		ught My Grandmother to Read – Sudha M	lurthy		
	Autobiogra				
		r frog Went to Heaven – A Tale of Angolo	7 1		
Unit - IV		gs of Fire (Chapters 1,2,3) by A.P.J Abdul F	Kalam		
Unit - IV	<b>Tenses</b> 4.1 Pres	ont			
	4.2 Past 4.3 Futu				
	4.4 Cone				
Unit - V		the Workplace			
	•	ail – Invitation, Enquiry, Seeking Clarificat	ion		
	5.2 Circ				
	5.3 Men				
		utes of the Meeting			
Doforoncoc	J.1 1-1111	2000 01 010 1.100 0119			

### References

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Martin Hewings. Advanced English Grammar. Cambridge University Press, 2000SP Bakshi, Richa Sharma. Descriptive English. Arihant Publications (India) Ltd., 2019.

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Langston Hughes. Still Here

https://poetryace.com/im-still-here

R. K. Narayan. Engine Trouble

http://www.sbioaschooltrichy.org/work/Work/images/new/8e.pdf

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Frank Stockton. The Lady or the Tigerhttps://www.gutenberg.org/ebooks/396

#### **Outcome:**

On completion of this course, students will;

- 1. Realize the importance of resilience
- 2. Become good decision-makers
- 3. Imbibe problem-solving skills
- 4. Use tenses appropriately
- 5. Use English effectively at the work place.

SEC   Course   80123   Poultry Nutrition and Feed Milling Technology   5   5   Code:		Semester II						
Code:				Core Course	Credit	H/W	T/P	
2. To teach on poultry feed ingredients and its usage 3. To Impart knowledge on nutrient requirements of poultry 4. To provide in depth knowledge on feeds and feeding of poultry 5. To create awareness on feed milling technology and feed quality control  Feed Ingredients:  Terminology - Digestive system - Digestion - Nutrients classification - Macro Micro nutrients - Classification of feed ingredients - Conventional and conventional feed resources - Energy sources - Protein sources - Vegetable animal origin - Utilization of Conventional and non-conventional feed stuffs  Unit - II  Feeds and Feeding of Poultry:  Nutrient requirements of poultry - Factors influencing the nutrient requirement of feeding - Restricted feeding - Phase feeding - Precision feeding - Supplement feeding - Restricted feeding - Phase feeding - Precision feeding - Supplement feeding - Sex separate feeding - Feeding of breeder chicken - Feeding of ducks, turl Japanese qualis and Guinea fowl - Feeding in different seasons - Nutritional Factors in feed stuffs - Classification - Feed Toxins - My cotox Aflatoxin and Ochra-toxin and their prevention - Pesticide toxicity in poultry - supplements and Feed Additives - Classification - Enzymes, Emulsifiers, Antioxid probiotics, prebiotics, Synbiotics, phytobiotics, antibiotics, toxin binders - Herbs performance enhancers  Unit - IV  Feed Milling Technology:  Poultry feed formulation - Least cost formulation - Feed Mill Layout and design - material purchase and storage - Feed milling equipment - Feed grinder - Roller and hammer mill - Feed mixer - Horizontal and vertical mixer - Elevators, convey boiler, cyclone etc Basic feed milling process - Batch weighment, grinding, mi conditioning, pelleting, cooling, crumbling, Sifting and other processing operat Pelleting and crumbling technology - Packaging, labelling and description processed feed- Feed Storage  Unit - V  Feed Quality Control:  Systematic quality control during various stages - Sampling techniques - Phy and Chemical evaluation of feed ingr		8012	3	Poultry Nutrition and Feed Milling Technology	5	5	T	
Feed Ingredients: Terminology - Digestive system - Digestion - Nutrients classification - Macro Micro nutrients - Classification of feed ingredients - Conventional and conventional feed resources - Energy sources - Protein sources - Vegetable animal origin - Utilization of Conventional and non-conventional feed sture Nutrient content of feed stuffs    Value	Objectiv	<ul><li>2. To teach on poultry feed ingredients and its usage</li><li>3. To Impart knowledge on nutrient requirements of poultry</li><li>4. To provide in depth knowledge on feeds and feeding of poultry</li></ul>						
Nutrient requirements of poultry - Factors influencing the nutrient requirement Physical forms of feed – mash, pellet and crumble - System of feeding – Ad lib feeding - Restricted feeding - Phase feeding - Precision feeding - Supplement feeding - Sex separate feeding - Feeding of chicken - Commercial layer changrowers, layers and broilers - Feeding of breeder chicken - Feeding of ducks, turl Japanese quails and Guinea fowl - Feeding in different seasons - Nutritional received deficiencies and metabolic disorders in poultry  Unit - III  Feed Toxins and Additives:  Anti-Nutritional Factors in feed stuffs - Classification - Feed Toxins - My cotoxion Aflatoxin and Ochra-toxin and their prevention - Pesticide toxicity in poultry supplements and Feed Additives - Classification - Enzymes, Emulsifiers, Antioxid probiotics, prebiotics, Synbiotics, phytobiotics, antibiotics, toxin binders - Herbs performance enhancers  Unit - IV  Feed Milling Technology:  Poultry feed formulation - Least cost formulation - Feed Mill Layout and design - material purchase and storage - Feed milling equipment - Feed grinder - Roller and hammer mill - Feed mixer - Horizontal and vertical mixer - Elevators, convey boiler, cyclone etc Basic feed milling process - Batch weighment, grinding, mi conditioning, pelleting, cooling, crumbling, Sifting and other processing operat Pelleting and crumbling technology - Packaging, labelling and description processed feed- Feed Storage  Unit - V  Feed Quality Control:  Systematic quality control during various stages - Sampling techniques - Phy and Chemical evaluation of feed ingredients - Raw Material Adulteration -	Unit - I	For To	Feed Ingredients: Terminology - Digestive system - Digestion - Nutrients classification - Macro at Micro nutrients - Classification of feed ingredients - Conventional and Conventional feed resources - Energy sources - Protein sources - Vegetable at animal origin - Utilization of Conventional and non-conventional feed stuffs					
Unit - III Feed Toxins and Additives:  Anti-Nutritional Factors in feed stuffs – Classification - Feed Toxins – My cotoxical Aflatoxin and Ochra-toxin and their prevention – Pesticide toxicity in poultry - supplements and Feed Additives - Classification - Enzymes, Emulsifiers, Antioxide probiotics, prebiotics, Synbiotics, phytobiotics, antibiotics, toxin binders - Herbst performance enhancers  Unit - IV Feed Milling Technology:  Poultry feed formulation - Least cost formulation - Feed Mill Layout and design - material purchase and storage - Feed milling equipment - Feed grinder – Roller and hammer mill - Feed mixer – Horizontal and vertical mixer - Elevators, converted boiler, cyclone etc Basic feed milling process - Batch weighment, grinding, mit conditioning, pelleting, cooling, crumbling, Sifting and other processing operated Pelleting and crumbling technology - Packaging, labelling and description processed feed- Feed Storage  Unit - V Feed Quality Control:  Systematic quality control during various stages - Sampling techniques - Phy and Chemical evaluation of feed ingredients - Raw Material Adulteration -	Unit - II	N P fe fe gu Ja	Nutrient requirements of poultry - Factors influencing the nutrient requirement Physical forms of feed – mash, pellet and crumble - System of feeding – Ad libitate feeding - Restricted feeding - Phase feeding - Precision feeding - Supplementate feeding – Sex separate feeding - Feeding of chicken – Commercial layer chick growers, layers and broilers – Feeding of breeder chicken - Feeding of ducks, turkey Japanese quails and Guinea fowl - Feeding in different seasons - Nutrition					
Poultry feed formulation - Least cost formulation - Feed Mill Layout and design - material purchase and storage - Feed milling equipment - Feed grinder - Roller and hammer mill - Feed mixer - Horizontal and vertical mixer - Elevators, conversionly boiler, cyclone etc Basic feed milling process - Batch weighment, grinding, mix conditioning, pelleting, cooling, crumbling, Sifting and other processing operated Pelleting and crumbling technology - Packaging, labelling and description processed feed- Feed Storage  Unit - V  Feed Quality Control:  Systematic quality control during various stages - Sampling techniques - Phy and Chemical evaluation of feed ingredients - Raw Material Adulteration -	Unit - III	A A su p:	Feed Toxins and Additives:  Anti-Nutritional Factors in feed stuffs – Classification - Feed Toxins – My cotoxins – Aflatoxin and Ochra-toxin and their prevention – Pesticide toxicity in poultry - Feed supplements and Feed Additives - Classification - Enzymes, Emulsifiers, Antioxidants probiotics, prebiotics, Synbiotics, phytobiotics, antibiotics, toxin binders - Herbs and					
Unit - V Feed Quality Control:  Systematic quality control during various stages - Sampling techniques - Phy and Chemical evaluation of feed ingredients - Raw Material Adulteration -	Unit - IV	Pom an bo co Po	Feed Milling Technology:  Poultry feed formulation - Least cost formulation - Feed Mill Layout and design - Ramaterial purchase and storage - Feed milling equipment - Feed grinder - Roller mand hammer mill - Feed mixer - Horizontal and vertical mixer - Elevators, conveyo boiler, cyclone etc Basic feed milling process - Batch weighment, grinding, mixing conditioning, pelleting, cooling, crumbling, Sifting and other processing operation Pelleting and crumbling technology - Packaging, labelling and description				er mills veyors, nixing, ation -	
regulations on feed manufacturing – Organic, Designer and SPF egg production  Reference and Text books:		Fo Sy an so re	Feed Quality Control:  Systematic quality control during various stages - Sampling techniques - Physical and Chemical evaluation of feed ingredients - Raw Material Adulteration - Bio security in feed mills - GMP and HACCP protocols - National and International regulations on feed manufacturing - Organic, Designer and SPF egg production					

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<b>Outcome:</b>	On successful completion of the course, the students may
	1. Understand the digestion and absorption of nutrients in poultry
	2. Acquire in depth knowledge on nutrient requirements of poultry
	3. Understand the type of feed and feeding for poultry
	4. Understand the importance of feed toxins and supplements
	5. Gain knowledge on feed milling activity and feed quality control

#### **Mapping Course Outcome VS Programme Outcomes**

CO	P01	PO2	P03	PO4	PO5	P06	P07	P08	P09	PO10
CO1	2	3	2	2	3	3	2	3	1	3
CO2	2	2	3	1	2	2	1	1	2	1
CO3	3	2	2	3	3	3	2	3	3	3
CO4	1	1	2	2	2	3	3	2	3	3
CO5	2	2	3	2	1	3	2	3	2	2
W. AV	2.0	2.0	2.4	2.0	2.2	2.8	2	2.4	2.2	2.4

3- Strong, 2- Medium, 1- Low

#### **Mapping Course Outcome VS Programme Specific Outcomes**

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	3	3	3	2
CO2	3	2	1	2	1
CO3	2	3	3	3	3
CO4	3	2	2	3	3
CO5	1	1	3	3	1
W.AV	2.2	2.2	2.4	2.8	2.0

3- Strong, 2- Medium, 1- Low

		Semester II								
CC/DSE/NM	IE/ SEC	Core Course	Credits	H/W	T/P					
Course Code	e:   80124	Practical in Poultry Nutrition and Feed	4	8	P					
		Milling Technology								
Objectives		tand the poultry nutrient and feeding of pou	ıltry							
		n poultry feed ingredients and its usage								
		knowledge on nutrient requirements of poultry								
		e in depth knowledge on feeds and feeding o								
		awareness on feed milling technology and f		ontrol						
1.		ents used in poultry feed ant its nutrient co	mposition							
2.		sensory evaluation of feed ingredients								
3.	Adulterants	in Feed production								
4.		of Dry Matter and Moisture								
5.	Estimation of	of Total Ash and Acid Insoluble Ash								
6.	Determinati	on of crude protein, fiber and nitrogen free	extract							
7.	Determinati	on of calcium and Phosphorus								
8.	Estimation of	of Aflatoxin								
9.		uirements of poultry								
10.	Least cost fe	ed formulation								
11	Feed mill lay	out and design								
12.	Feed milling	equipment								
13.	Feed produc	tion methods								
14.	Storage of fe	ed ingredients and feed								
15.	Visit to Feed	l Mill plant								
Outcome:	On successfi	al completion of the course, the students ma	ıy							
		d the digestion and absorption of nutrients								
	-	in depth knowledge on nutrient requiremen	1 5							
		d the types feed and feeding of various pou	•							
		d the importance of feed toxins and supple								
	5. Better kno	owledge on feed production and feed quality	control							

# Mapping Course Outcome VS Programme Outcomes

CO	P01	PO2	P03	PO4	P05	P06	P07	P08	P09	PO10
CO1	2	3	3	2	3	3	3	2	2	3
CO2	3	2	1	1	2	3	3	2	1	3
CO3	3	2	1	3	2	3	2	1	2	2
CO4	2	2	2	2	1	3	3	2	3	3
CO5	2	2	3	2	3	3	3	3	2	2
W. AV	2.4	2.2	2.0	2.0	2.2	3.0	2.8	2.0	2	2.6

3- Strong, 2- Medium, 1- Low

# Mapping Course Outcome VS Programme Specific Outcomes

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	2	2	3
CO2	3	2	1	3	3
CO3	3	2	2	3	2
CO4	3	3	3	2	3
CO5	3	1	2	2	3
W.AV	3	2.2	2	2.4	2.8

3- Strong, 2- Medium, 1- Low

		Semester II						
CC/DSE/NM	1E/ SEC	Allied Course	Credits	H/W	T/P			
<b>Course Cod</b>	e: 80125	Incubation and Hatchery	3	3	T			
		Management						
<b>Objectives</b>	1.To impart	knowledge on hatchery construction and o	perations					
	2. To know t	he care and management of hatching eggs	;					
		tand the Incubation Principles and Practice						
	4. To provide	e in depth knowledge on day old chick produ	ıction					
	5. To provid	e in depth knowledge on hatchery managen	nent					
Unit - I	Hatchery O	verview:						
		– Hatchery Layout, design and construction						
		d Care of hatching eggs - Storage of hatch	iing eggs – E	gg cool r	oom –			
	Fumigation	of hatching eggs						
Unit - II	Incubation	Requirements:						
		periods of poultry species – Chicken Embry						
	_	ts of incubation - Effects of temper			aseous			
		t, position and turning of eggs on hatchabil	lity of chicke	n				
Unit - III	Incubators							
		- Types of incubators - Single stage and	_					
		Setter management – Hatcher Managemen	t – Automat	ion in ha	tchery			
	operation							
Unit - IV	Hatchery O	4						
		erations – Setting, Candling - Transfer - Ha	0	0	_			
	_	out - Grading – Chick sexing - Packing and	Chick dispat	ch – In-o	vo and			
		cinations and medications						
Unit - V		ce Analysis:						
Hatchability Assessment – Chick quality assessment – Fac								
	_	y - break open analysis Malformation	-		_			
	records -	3	nitation - H	atchery	waste			
	manageme							
Reference a	and Text boo	ks:						

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Bell D. Donald and Weaver D. William Jr., 2007. *Commercial Chicken Meat and Egg Production*. 5<sup>th</sup> Edition. Springer India Pvt. Ltd., Noida.

Taylor W. Lewts, 2003. *Fertility and Hatchability of Chicken and Turkey Eggs*. 1<sup>st</sup> Edition. International book Distributing Co., Lucknow, India.

Sreenivasaiah., P. V., 2015. *Textbook of Poultry Science*. 1st Edition. Write & Print Publications, New Delhi

Rajini Asha R., 2011. Simply....Poultry Science. 1st Edition. Alfa Publications, New Delhi.

Suguna Management System: *Standard Operating Manual – Feed Lab*, 2012. Suguna Foods Pvt. Ltd.

Sreenivasaiah., P. V., 2006. *Scientific Poultry Production-A unique encyclopedia*. International Book Distributing Co., Lucknow, India.

Outcome:	On successful completion of the course, the students could							
	1. Understand the hatchery plan, lay out and construction							
	2. Acquire in depth knowledge care and management of hatching eggs							
	3. Understand the hatchery management and its operations							
	4. Understand the importance of chick quality assessment							
	5. HaveBetter knowledge on the production of quality day old chicks							

# Mapping Course Outcome VS Programme Outcomes

СО	P01	P02	P03	P04	P05	P06	P07	P08	P09	PO10
CO1	3	2	3	3	2	2	3	2	3	1
CO2	2	2	2	1	1	3	2	3	2	3
CO3	3	3	3	3	2	3	3	2	1	2
CO4	3	2	2	2	3	2	2	2	2	3
CO5	3	2	3	3	2	1	3	1	2	2
W. AV	2.8	2.2	2.6	2.4	2	2.2	2.6	2	2.0	2.2

3- Strong, 2- Medium, 1- Low

# **Mapping Course Outcome VS Programme Specific Outcomes**

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	2	3	3	1
CO2	2	2	2	2	3
CO3	3	3	3	1	2
CO4	2	3	2	2	3
CO5	2	1	3	2	2
W.AV	2.0	2.2	2.6	2.0	2.2

3- Strong, 2- Medium, 1- Low

			S	emest	er II				
CC/DSE/NM	IE/ SEC		A	llied C	ourse		Credits	H/W	T/P
Course Code	e: 80126	Practical	in	Egg	Incubation	and	2	4	P
		Hatchery		_					
Objectives	· -	_		-	planning and		uction		
					ent of hatching				
					inciples and Pr				
	· •	-		_	n day old chick	-			
	•	*			n hatchability a	issessi	nent		
1.	Hatchery pla								
2.	Physical req	uirements o	of inc	ubatio	n				
3.	Fumigation	and Grading	g of h	atchin	g eggs				
4.	Egg Setting	and method	s - Eg	g cand	lling				
5.	Chicks Pull	out – chick g	gradi	ng, vac	cination, sexin	g metl	nods		
6.	Residue bre	akout analy:	sis						
7.	Calculation of				lity				
8.	Chick packii			ation					
9.	Hatchery wa		l						
10.	Hatchery sa	nitation							
Outcome:		-			arse, the studer				
					out and consti				
	-	_			nd managemei	nt of h	atching eg	gs	
	3. Understan		-	-					
	4. Gain knov	_	-						
	5. Acquire k	nowledge or	n hato	ching p	oractices				

# Mapping Course Outcome VS Programme Outcomes

СО	P01	PO2	P03	PO4	P05	P06	P07	P08	P09	PO10
CO1	2	3	2	3	1	2	3	2	3	3
CO2	1	2	1	2	2	2	2	2	2	2
CO3	3	3	3	1	3	3	1	2	3	2
CO4	2	3	3	3	2	3	2	2	2	2
CO5	2	2	1	1	2	1	2	3	3	3
W. AV	2	2.8	2.0	2	2.0	2.2	2	2.2	2.6	2.4

3- Strong, 2- Medium, 1- Low

# Mapping Course Outcome VS Programme Specific Outcomes

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	3	3	2	1
CO2	1	2	2	2	3
CO3	3	3	1	3	2
CO4	3	2	3	3	3
CO5	1	3	1	1	2
W.AV	2.0	2.6	2	2.2	2.2

3- Strong, 2- Medium, 1- Low

Semester II					
CC/DSE/NME/ SEC/ T / OL / E		SEC - II	Credits	H/W	T/P
Course Code:	80127	Environmental Studies	2	2	P
Objectives	<ol> <li>To understand the multidisciplinary nature of environmental studies such as forest, water, mineral and energy and land resources.</li> <li>To portray the eco system bio diversity and its conservation.</li> <li>To impart the knowledge of environmental pollution</li> <li>To know the importance office ld work to study common plants, insects and birds and visit local areas to document environmental assets.</li> </ol>				
Unit - I	<b>The Multidisciplinary Nature of Environmental Studies:</b> Definition, Scope and importance -Need for public awareness				
Unit - II	Natural Resources: Renewable and non-renewable resources  A). Forest Resources: Use and Over-Exploitation, Deforestation, Case Studies, Timber Extraction, Mining, Dams and Their Effect on Forests and Tribal People.  B). Water Resources: Use and Over-Utilization of Surface and Ground Water, Floods, Drought, Conflicts over Water, Dams- Benefits and Problems.  C). Mineral Resources: Use and Exploitation, Experimental Effects of Extracting and Using Mineral Resources, Case Studies.  D). Food Resources: World Food Problems, Changes Caused by Agriculture and Overgrazing, Effects of Modern Agriculture, Fertilizer-Pesticide Problems, Water Logging, Salinity, Case Studies.  E). Energy Resources: Growing Energy Needs, Renewable and Non-Renewable Energy Sources, Use of Alternate Energy Resources, Case Studies.  F). Land Resources: Land as a Resource, Land Degradation, Main Induced Landsides, Soil-Erosion and Desertification.  Role of Individual in Conservation of Natural Resources  Equitable Use of Resources for Sustainable Life style				
Unit - IV	Eco systems: Concept of an Ecosystem, Structure and Function of an Ecosystem, Energy Flow in The Ecosystem, Food Chains, Food Webs and Ecological Pyramids.  Biodiversity and Its Conservation: Introduction-Definition: Genetic, Species and Eco system Diversity, Bio-Geographical Classification of India, Value of Biodiversity: Consumptive Use, Productive Use, Social Ethical, Aesthetic and Option Values. Biodiversity at Global, National and Local Levels, India as a Mega-Diversity Nation, Hot Spots of Biodiversity, Threats to Biodiversity: Habitat Loss, Poaching of Wild life, Man-Wild life Conflicts, Endangered and Endemic Species of India, Conservation of Biodiversity: In-Situ And Ex-Situ Conservation of Biodiversity.  Environmental Pollution: Causes, Effects And Control Measures of: A).Air Pollution, B).Water Pollution, C). Soil Pollution, D). Marine Pollution, E). Noise				
Unit - V	Pollution, F). Thermal Pollution, G). Nuclear Hazards.  Field Work  Visit to a Local Area to Document Environmental Assets-River/ Forest/ Grassland/ Hill/Mountain				

- ➤ Visit to a Local Polluted Site-Urban/Rural/Industrial/Agricultural
- > Study of Common Plants, Insects, Birds
- > Study of Simple Eco system-Pond, River, Hill Slopes, etc.,

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Townsend, C.R., Begon, M., & Harper, J.L. (2008). *Essentials of Ecology* (3rd edition). Oxford: BlackwellPublishing.

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#### Outcome:

On successful completion of the subject, the students acquired knowledge about:

- 1. Renewable and non-renewable resources.
- 2. Species and Ecosystem Diversity, Bio-Geographical Classification of India, Value of Biodiversity:
- 3. Causes, Effects and Control Measures of environmental pollution
- 4. Field work knowledge of studying eco system pond, river, hill and common plants, insects and birds
- 5. Documentation of environmental assets

		Semester III						
CC/DSE/NI	/IE/ SEC/ Tamil	Tamil	Credits	H/W	T/P			
Course Co	<b>de:</b> 80131T	தமிழகவரலாறும்பண்பாடும்	3	4	Т			
Objectives	<ul> <li>தமிழரின்வாழ</li> <li>தமிழரின்பண்</li> <li>தமிழர்மேல்நி</li> <li>தமிழ்இலக்கி</li> </ul>	ற்றைஅறிந்துகொள்ளுதல். ஓவியல்தொன்மையைஅறிதல். rபாட்டினைஅறிந்துகொள்ளல். கழ்ந்தபிறபண்பாட்டுத்தாக்கங்களைஅற யம்சார்ந்தபோட்டித்தேர்வுகளுக்குஏற்பக	•	_முறைக	ளை			
Unit - I	மேற்கொள்ளுதல். <b>தொல்பழங்காலவரலாறும்சங்ககாலவரலாறும்</b> 1. தொல்தமிழச்  2 பழையகற்காலம்  3. புதியகற்காலம்  4. உலோகக்காலம்  5. அகழ்வாராய்ச்சியில்தமிழும்தமிழரும் (கீழடிவரை)  6. திணைவாழ்வியல் (களவுவாழ்க்கை, கற்புவாழ்க்கை, உணவு, அணிகலன்கள், வாணிகம்,விளையாட்டுகள்)  7. கல்வியும், கலைகளும்.  8. தமிழ்வளர்த்தசங்கம்.  9. சங்ககாலஆட்சிமுறை.							
Unit - II Unit - III	10 அயல்நாட்டுத்தொடர்புகள்.  ஆட்சியர்வரலாறு 1.மூவேந்தர்வரலாறு 2. பல்லவர்வரலாறு 3. நாய்க்கர்ஆட்சி 4. முகம்மதியர்ஆட்சி 5. மராட்டியர்ஆட்சி ஐரோப்பியர்காலவரலாறு 1. போர்த்துக்கீசியர் 2. டச்சுக்காரர்கள் 3 டேனிஸ்காரர்கள் 4. பிரெஞ்சுக்காரர்கள்							
Unit - IV	6. பாளையக்காரர்க 7. இந்தியவிடுதலை <b>விடுதலைக்குபின்த</b> 1. மொழிப்போராட்	ல்போராட்டத்தில்தமிழ்நாடு <b>மிழ்நாட்டுவரலாறு</b>						

	2. சமூகமறுமலர்ச்சி	
	3. தொழில்நுட்பவளர்ச்சி	
Unit - V	மொழிப்பயிற்சி  நிறுத்தக்குறிகள்  கலைச்சொற்கள்  மொழிபெயர்ப்பு பயிற்சி  ஆங்கிலக்கலைச்சொற்களைக்கொடுத்துஅவற்றைத்தமிழில்மொழிபெயர்க்கச்செய்தல்.	:

#### References:

- தமிழகவரலாறும்பண்பாடும் கே.கே. பிள்ளை, உலகத்தமிழாராய்ச்சிநிறுவனம், சென்னை,
- தமிழர்நாகரிகமும்பண்பாடும் அ. தட்சிணாமூர்த்தி, யாழ்வெளியீடு, சென்னை,
- தமிழகவரலாறும்பண்பாடும் வே.திசெல்லம், மணிவாசகர்பதிப்பகம், சென்னை,
- ஆதிச்சநல்லூர்முதல்கீழடிவரைநுவேதாலூயிஸ், கிழக்குப்பதிப்பகம், சென்னை,
- பண்பாட்டுமானிடவியல் பக்தவத்சலபாரதி, அடையாளம்பதிப்பகம், திருச்சி.
- தமிழாமேல்நிகழ்ந்தபண்பாட்டுப்படையெடுப்புகள், க.ப. அறவாணன், தமிழ்க்கோட்டம், சென்னை.
- தமிழகசமுதாயபண்பாட்டுகலைவரலாறு -குசேதுராமன், என்.சி.பி.எச், சென்னை,
- தமிழர்கலையும்பண்பாடும் அ.கா. பெருமாள், என்.சி.பி.எச், சென்னை.
- ஒருபண்பாட்டின்பயணம்சிந்துமுதல்வைகைவரை ஆர். பாலகிருஷ்ணான்,
   ரோஜாமுத்தையாஆராய்ச்சிநூலகம், சென்னை.
- தமிழும்பிறபண்பாடும் தெ.பொ. மீனாட்சிசுந்தரனார், நியூசெஞ்சுரிபுக்ஹவுஸ், சென்னை.
- தமிழர்வரலாறும்பண்பாடும் நீலகண்டசாஸ்திரி, ஸ்ரீசெண்பகாபதிப்பகம், சென்னை.
- தமிழச்வரலாறும்தமிழர்பண்பாடும் மா.இராசமாணிக்கனார்.
- தமிழர்நாகரிகவரலாறு க.ததிருநாவுக்கரசு, தொல்காப்பியர்நூலகம், சென்னை.

	>	தமிழகவரலாற்றைஅறிந்துகொள்வர்.
	>	தமிழரின்வாழ்வியல்தொன்மையைஅறிவர்.
Outcome:	>	தமிழரின்பண்பாட்டுக்கூறுகளைஅறிந்துகொள்வர்.
	>	பிறபண்பாட்டுத்தாக்கம்மற்றும்அணுகுமுறைகளைஅறிவர்.
	>	மொழிப்பயிற்சிக்குத்தேவையானஇலக்கணங்களைக்கற்பர்.

		Semester III									
Tamil / OL		Hindi	Credits	H/W	T/P						
Course	80131H	पत्रलेखनऔरपारिभाषिकशब्दावली	3	4	T						
Code:											
<b>Objectives</b>		1. निजीपत्रलिखना									
		जिकपत्रलिखना									
	3. व्याव	सायिकपत्रलिखना									
	<b>4.</b> कार्या	लयीपत्राचारकाज्ञानदेना									
	<b>5.</b> तकर्न	ोकीशब्दावलीजानना									
Unit - I	निजीपत्रलेख	<b>ान</b> : * निजीपत्र-अर्थऔरभेद * पिताजी/माताजीके	नामपर * वि	मेत्र, भाईकेन	गमपर *						
		ाब्दावली- प्रशासनिक		, ,							
Unit - II	सामाजिकपः	त्र <b>लेखन :</b> * सामाजिकपत्रअर्थऔरभेद	* आवेट	नपत्र –	नौकरी,						
		भधिकारीकेनामपत्र *नगरपालिकाकेनामपत्र * पार्वि									
Unit – III		<b>पत्रलेखन :</b> * व्यावसायिकपत्रअर्थऔरभेद * प्र		मपर * पूछ	-ताछ *						
	शिकायती * ध	क्षतिपूर्तिआदिविषयोंपर * शब्दावलीपदनामवमंत्रात	तयों								
Unit - IV	कार्यालयीपत्र	<b>ाचार :</b> * सामान्यपरिचय * सरकारीपत्र * अर्थ-	-सरकारीपत्र	* ज्ञापन, प	गरिपत्र *						
		अधिसूचना * आवेदनपत्र * पारिभाषिकशब्दावर्ल									
Unit - V	प्रतियोगीपरी	क्षापरआधारितपत्राचारसेसंबंधितप्रशिक्षणका	र्ष	:	*						
	प्रारूपबनानेव	गप्रशिक्षणदेना  * टिप्पणीलि	खनेकाप्रशि	क्षणदेना	*						
	विभिन्नप्रतिय	गेगीपरीक्षाओंकेबारेमेंसूचनाप्रदानदेना									
References	आलेखनऔर	<b>टिप्पणी</b> – प्रो. विराज *									
<b>आलेखन</b> – वि	<sup>र्</sup> चलू										
<b>Outcome:</b>	1. पत्रले	खनकाज्ञानप्रदानकरना									
	2. कार्या	लयपत्राचारकेनियमसमझाना									
	<b>3.</b> राजभ	गषाहिन्दीकीजानकारीदेन <u>ा</u>									
	<b>4.</b> आले	खनऔरटिप्पणीलिखनेकाअभ्यास									
	5. पदन	म, अनुभागकेनामऔरतत्संबंधीशब्दावली									

		Semester III							
E		English	Credits	H/W	T/P				
Course	80132	General English - III	3	4	Ť				
Code:		_							
Objectives	1. To make them active listeners								
	2. To enhance the interpersonal relationship skills								
	3. To e	mbolden them to cope with stress							
	4. To n	naster grammar skills							
	5. To h	elp them to use English effectively in a bus	iness enviro	nment					
Unit - I	Active List	ening							
	Short Story								
	1.1 In a Grove – Akutagawa Ryunosuke Translated from Japanese by Takashi								
	Kojima	, , , , , , , , , , , , , , , , , , , ,							
	1.2 The Gift of the Magi – O' Henry								
	Prose								
	1.3 Liste	ening – Robin Sharma							
	1.4 Nobel Prize Acceptance Speech – Wangari Maathai								
Unit - II	Interpersonal Relationships								
	Prose								
	2.1 Telephone Conversation – Wole Soyinka								
	2.2 Of Friendship – Francis Bacon								
	Song on (Motivational/ Narrative)								
	2.3 Ulysses – Alfred Lord Tennyson								
	2.4 And Still I Rise – Maya Angelou								
Unit - III	Coping Wi	th Stress							
	Poem								
	1	ure – W.H. Davies							
		iety Monster – RhonaMcFerran							
	Readers Th								
	3.3 The Forty Fortunes: A Tale of Iran								
	3.4 Whe	ere there is a Will – Mahesh Dattani							
Unit - IV	Grammar								
		sal Verbs & Idioms							
		als and Auxiliaries							
		Phrases – Gerund, Participle, Infinitive							
Unit - V	_	on/ Writing Skills							
	5.1 Office	cial Correspondence – Leave Letter , Lette	er of Applica	ation, Perr	nission				
	Letter								
	5.2 Drafting Invitations								
	5.3 Broo	chures for Programmes and Events							
References		chures for Programmes and Events							

#### References

## **Text Books (Latest Editions)**

Wangar iMaathai – Nobel Lecture. Nobel Prize Outreach AB 2023. Jul 2023.

Mahesh Dattani, Where there is a Will. Penguin, 2013.

Martin Hewings, Advanced English Grammar, Cambridge University Press, 2000

Essential English Grammar by Raymond Murphy

#### **Web Resources**

WangariMaathai – Nobel Lecture. Nobel Prize Outreach AB 2023. Mon. 17 Jul 2023. <a href="https://www.nobelprize.org/prizes/peace/2004/maathai/lecture/">https://www.nobelprize.org/prizes/peace/2004/maathai/lecture/</a>

Telephone Conversation - Wole Soyinka

https://www.k-state.edu/english/westmank/spring 00/SOYINKA.html

Anxiety Monster- RhonaMcFerran-

www.poetrysoup.com

#### **Outcome:**

On completion of this course, students will;

- 1. Listen actively
- 2. Develop interpersonal relationship skills
- 3. Acquire self-confidence to cope with stress
- 4. Master grammar skills
- 5. Carry out business communication effectively

Semester III										
CC		Core Course	Credits	H/W	T/P					
Course Code	: 80133	Principles of Poultry Breeding	3	3	T					
Objectives	1. To impar	t knowledge on fundamentals of poultry	breeding							
	2. To teach	on various economic traits of broilers a	nd layers							
	3. To impart	t knowledge on various methods used i	n poultry breedi	ng						
	4. To develo	p skill on Artificial Insemination in chic	ken							
		t knowledge on development of commer	rcial strains of po	oultry						
Unit - I	Classificati	on of Poultry:								
		Cerminology - Genetic classification								
	characteristics of poultry - Basic genetics - Chromosome number in different species									
		Qualitative traits – Auto sexing – Econo	omic traits of con	nmercial lay	ers and					
	broilers									
Unit - II	Inheritance									
		of characters - Principles in control	~							
		ss - Homozygous and heterozygous in								
		segregation and recombination - The la			ıt - Sex-					
		ritance - Distinguishing sex at hatching	time - Hybridiza	tion						
Unit - III	Methods of	3								
		d environment basis of selection -Indi								
	_	Pedigree selection - Progeny testing - Methods of mating - Flock, Pen, Pair mating -								
** 1. ***	Random mating- Out breeding - Crossbreeding - Inbreeding									
Unit - IV	Selection Methods:									
		selection on phenotypic values - Tane		-	_					
		ction index - Ideal breeding programme		oirds for bre	eeding -					
IInit V		egg type lines - Selection of meat type li	ines							
Unit - V	_	or Meat and Egg:	ndnavant ataal	nament buo	o dona					
		stocks – Great Grandparent stock, Gra l hybrids - Objectives of poultry breed								
	Artificial ins		iing ioi meat an	a egg proa	uction -					
Reference a										
		iue M. F., 2007. Handbook of Poultry	Production and	d Managam	ont 2nd					
		Medical Publishers Pvt. Ltd., New Delhi		i munuyenn	ent. Z					
		of the Fowl: The classic guide to poultry		hicken gene	etics 1st					
		ess, New York.	y breeding and e	meken gene						
		5. Textbook of Poultry Science. 1st Edition	on Write & Prin	t Publication	ns New					
Delhi	11., 1 . V., 2010	. Textbook of I buildy Science. 1st Build	511. <b>VV</b> 11CC & 1 1111	e i abileació	113, 140 00					
	z. 2008. Poult	try Husbandry. 2 <sup>nd</sup> Edition. J. V. Publishi	ing House. Iodhr	our. Raiastha	an.					
		essful Poultry Management. 2nd Edition								
•		Modern Poultry Farming. 1st Edition								
Company, Lu										
Outcome:		ful completion of the course may								
<del></del>		e knowledge on fundamentals of poultry	breeding							
		nd the various systems of chicken bree	_							
		the knowledge on various selection met	_	Poultry bre	eding					
	_	skill on Artificial Insemination in chicke		<i>y</i>	J					
	-			en for						
	5. Understand the technology on the development of strains of chicken for commercial exploitation									

СО	P01	PO2	P03	PO4	P05	P06	P07	P08	P09	PO10
CO1	2	3	3	3	2	2	2	3	2	2
CO2	2	2	3	3	2	1	2	2	3	3
CO3	3	2	3	3	1	3	2	1	2	2
CO4	2	2	2	3	3	3	2	3	3	2
CO5	2	2	2	2	3	3	2	2	2	1
W. AV	2.2	2.2	2.6	2.8	2.2	2.4	2	2	2.4	2.0

3- Strong, 2- Medium, 1- Low

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	2	3
CO2	3	3	1	2	3
CO3	3	3	3	3	1
CO4	2	3	2	1	2
CO5	2	2	3	2	2
W.AV	2.6	2.8	2.4	2	2.2

3- Strong, 2- Medium, 1- Low

		Semester III									
СС		Core Course	Credits	H/W	T/P						
Course Cod	e: 80134	Breeder Chicken Management	3	3	Т						
Objectives	1. To unders	and the chicken breeder industry									
		he broiler breeder maintenance and its per									
	_	. To Impart knowledge on breeder housing and feeding									
		e in depth knowledge on breeder male mana	igement								
		n the collection and care of hatching eggs									
Unit - I	Breeding In										
		ninology - Size and structure of breeding									
		ntegration - Pure line - GGP - GP Parent - Commercial Broilers and layers -									
		strains of broilers and layers - Production	standards								
Unit - II		nd Growing Management:	_	1							
		- Shed preparation – Brooding arrangem									
		ng - Stocking density - Crop score - Lighti									
		Male and Female breeders - Grading -									
		nagement – Identification of Sexing Error									
		election of males - Vaccination and medic rowers -Transfer to layer house	auon sche	edule for i	reeder						
Unit - III		ring Management									
		uirement of broiler breeder - Broiler breed	er managei	ment in d	ifferent						
		tem – Management of Nest box - Litte	_								
		t – Pre-laying - Pre-peak - Peak and Post-p									
		g management- Vaccination and medicati									
		e management – Spiking of males - Mal									
	males - Flocl				J						
Unit - IV		semination:									
	Fertility - Fac	ctors affecting fertility - Artificial inseminat	tion - Care	of hatchin	ıg eggs-						
	Collection, S	election, Sanitation, Fumigation and stora	age of hate	ching egg	s - Egg						
	cool room,	Packing and dispatch of hatching eggs -	Seasonal	managen	nent of						
		ts – Summer, Winter and Monsoon manage	ement.								
Unit - V	Records Kee										
		of record keeping - Records in breeder pro									
		e parameter monitoring – HHE - HD%			-						
		eed efficiency - Flock costing, Fertility, Co	st of produ	ction of h	atching						
<b>—</b>	eggs, day old										
	and Text boo		D .		-						
Youn Micha	ael, 2013. <i>En</i>	cyclopedia of Broiler Breeder Production	ı: Producti	on, Feedi	ng and						

Youn Michael, 2013. *Encyclopedia of Broiler Breeder Production: Production, Feeding and Management Techniques*. Vol. 1, 2 & 3. Anmol Publications Pvt. Ltd., New Delhi.

Leeson. S., and Summers J. D., 2001. *Broiler Breeder Production*. 1st Edition. International Book Distributing Company, Lucknow

Sreenivasaiah., P. V., 2015. *Textbook of Poultry Science*. 1st Edition. Write & Print Publications, New Delhi

Bell D. Donald and Weaver D. William Jr., 2007. *Commercial Chicken Meat and Egg Production*. 5th Edition. Springer India Pvt. Ltd., Noida.

Rajini Asha R., 2011. Simply Poultry Science. 1st Edition. Alfa Publications, New Delhi

Taylor W. Lewts, 2003. *Fertility and Hatchability of Chicken and Turkey Eggs.* 1<sup>st</sup> Edition. International book Distributing Co., Lucknow, India.

**Outcome:** On successful completion of the course, the students could

- 1. Understand the existing broiler breeding policies and performance
- 2. Acquire in depth knowledge on grading and feeding of breeder chicks
- 3. Understand the cock management for better fertility
- 4. Understand the importance of artificial insemination and method
- 5. Better knowledge on hatching egg production

CO	P01	PO2	P03	PO4	P05	P06	P07	P08	P09	PO10
CO1	3	3	2	3	2	3	2	2	3	2
CO2	2	3	3	2	3	3	2	3	2	2
CO3	3	2	2	2	3	2	3	3	2	3
CO4	3	3	3	3	2	3	3	3	1	2
CO5	3	3	3	2	3	3	3	3	3	2
W. AV	2.8	2.8	2.6	2.4	2.6	2.8	2.6	2.8	2.2	2.2

3 - Strong, 2 - Medium, 1 - Low

СО	PO1	PO2	PO3	PO4	PO5
CO1	2	3	2	2	3
CO2	2	3	3	3	1
CO3	3	2	2	2	2
CO4	3	2	3	3	3
CO5	3	3	2	2	1
W. AV	2.6	2.6	2.4	2.4	2.0

3 - Strong, 2 - Medium, 1 - Low

			Sem	ester III					
CC				e Course			Credits	H/W	T/P
Course Code	e: 80135	Practical	in P	rinciples	of	Poultry	3	6	P
		Breeding	and	Breeder	•	Chicken			
		Managem							
Objectives		stand the bre			of o	chicken			
		on sexing of							
	_	t knowledge			_				
	-	le in depth kı	_			_			
		5. To create awareness on collection and care of hatching eggs							
1.		breed chara							
2.		nheritance –							
3.		ng program							
4.		ng program	me – se	ection of m	eat	t type lines	5		
5.	Artificial In								
6.		nsity- floor, f			_		ments of b	reeders	
7.		rangements		ooding equ	ipn	nent			
8.		d CV% calcul							
9.		ood and poo							
10.		cock for bre							
11		g Collection,							
12.		e Assessme							
Outcome:		ul completio					ıy		
		nd the breed			-				
	_	knowledge o							
		n depth kno	wledge o	on breeding	gpc	olicies vog	ue in chick	ken	
	productio								
		nd the broile					ces		
	5. Awarene:	ss on collect	ion and	care of hat	chi	ng eggs			

СО	PO1	PO2	PO3	PO4	PO5	P06	P07	P08	P09	PO10
CO1	3	2	2	3	2	3	2	2	3	2
CO2	2	3	3	2	3	3	1	3	2	2
CO3	2	2	2	2	3	2	3	3	2	2
CO4	3	3	3	3	2	3	3	3	1	2
CO5	3	3	2	2	3	3	3	3	3	2
W. AV	2.6	2.6	2.4	2.4	2.6	2.8	2.4	2.8	2.2	2.0

СО	PO1	PO2	PO3	PO4	PO5
CO1	3	2	1	2	3
CO2	3	1	2	3	2
CO3	2	3	3	3	2
CO4	3	3	3	3	1
CO5	3	3	3	3	3
W. AV	2.8	2.4	2.4	2.8	2.2

3 - Strong, 2 - Medium, 1 - Low

#### Semester III

ALLIED		Climatology and Poultry Production	Credits	H/W	T/P
<b>Course Cod</b>	e: 80136		3	3	T
Objectives	1. To under	stand the importance of Climatology and it	s influence	on	
	poultry I	Production			
	2. To create	awareness on the climatic components			
	3. To have an	n in depth knowledge on seasonal influence	on poultry		
	4. To provide	e in depth knowledge on disaster problems			
	5. To unders	tand the development of heat resistant chic	ken		
Unit - I	Classification	on of Climate :			
	Introduction	- Climate Definition - Classification -	Climatic 1	regions –	Climate
	Assessment	- Ecosystem - Natural resources and its ma	nagements		
Unit - II	Component	s of Climate :			
	Climatic di	fferentiation for avian production - M	licro and	Macro clin	mate -
	Temperature	e - Temperature zones - Air-composition	n - Speed	and Move	ment ·
	Relative hun	nidity and Light - Climatic factors affecting	poultry pro	oduction in	housed
	conditions				
Unit - III	Effect of Sea	ason on Poultry:			
	Seasonal ma	anagement of birds - Summer - Winter a	nd Monsooi	n - Measuri	ing and
	assessing te	emperature - Introduction of natural hea	t resistant	breeds/ va	rieties/
	strains to su	uit different climate regions of India – Ag	gro-meteoro	ology and w	veathei
	forecasting f				
Unit - IV	Seasonal M	· ·			
		neasure during extreme climatic condition			
		nagement - Water management Medic	cation proc	edures - C	Climatio
	adaptation m	neasures and disaster management.			
Unit - V	Pollution ar	nd Disaster Management:			
	Environmen	tal pollution - Air pollution - Water pollu	tion - Solid	d waste pol	lution ·
		ion - Soil pollution - Radioactive pollution			
	pollution - N	atural Disasters - Meaning, types and effec	t - Floods - I	Drought - C	yclone ·
	· •	s - Landslides - Avalanches - Volcanic erup		t and cold <b>V</b>	Naves ·
		isasters - Nuclear disasters - Biological dis	sasters		
	and Text bool				
	•	ndamentals of Ecology and environme	nt, 2 <sup>nd</sup> Ed	lition. Path	ifinder
publications				-	
	•	Text book of Environmental studies for	r Undergra	duate cour	ses.Alfa
Publications	•	1.0 ( 4.4 F.H.) 10PN 050000			
<u>-</u>		amental Science, 1st Edition, ISBN 9789395		44b 17 11.	
_	· •	ningham, 2017. Principles of Environme	ntal Science	e, 4 <sup>th</sup> Editi	ion, M
	ucatinal publi				00111
		.7. Ecology. Environmental Science and C	onservation	. S.Chand	CGIU 8
Company, N			D 11 :		
•		mental studies, 2020, Daya publishig house			
		nental studies, Prasanna publishers and dis			
Outcome:		al completion of the course, the students co	ould		
		d the importance climatology			
	2. Acquire ki	nowledge on types of pollution affecting the	e environme	ent	

- 3. Understand the impact of global warming on the earth
- 4. Acquire knowledge on micro environment on poultry production
- 5. Gain knowledge on disaster management

CO	P01	PO2	P03	P04	P05	P06	P07	P08	P09	PO10
CO1	2	3	3	3	2	1	3	1	1	1
CO2	1	1	3	1	2	2	1	2	2	1
CO3	3	2	2	2	2	3	2	2	2	3
CO4	2	2	2	3	2	2	1	3	2	3
CO5	2	2	2	3	2	3	3	2	3	3
W. AV	2.0	2.0	2.4	2.4	2.0	2.2	2.0	2.0	2.0	2.2

3 - Strong, 2 - Medium, 1 - Low

СО	PO1	PO2	PO3	PO4	PO5
CO1	2	3	2	2	3
CO2	1	2	3	3	1
CO3	3	2	2	2	2
CO4	3	2	2	3	3
CO5	3	3	2	2	1
W. AV	2.4	2.4	2.2	2.4	2.0

3 - Strong, 2 - Medium, 1 - Low

				Semester	III				
ALLIED		Practical	in	Climatology	and	Poultry	Credits	H/W	T/P
Course	80137	Productio	n				2	3	P
Code:									
Objectives	1.To und	derstand the	over	rview of climate	ology				
	2. To acc	quire know	edge	on measureme	nt of cli	imatic con	nponents		
				rironmental pol					
				owledge therm					
				owledge on dis	aster m	anagemer	nt		
1.		t zone of po							
2.	Measure	ement of mi	croei	nvironment					
3.	Lighting	g programm	e for	commercial br	oilers, la	ayers and	breeders		
4.	Summe	r managem	ent of	f poultry					
5.	Litter M	lanagement	in w	inter and mons	oon				
6.	Therma	ıl resistant b	reeds	s of chicken					
7.	Visit to	Agro meteo	rolog	y station					
8.		r forecastin							
9.	Water q	uality asses	smer	nt					
10.		r manageme		•					
Outcome:		-		n of the course,			d		
				industry status		-			
	_	_	ı kno	wledge broiler	farm bi	io security	and shed		
		ration			<b></b>	.,			
				ction managem			a		
		rstand the ir sment	npor	tance and meth	ods of b	oroiler per	formance		
	5. Better	r knowledge	on t	he broiler prodi	iction a	ınd marke	ting		

СО	P01	PO2	PO3	PO4	PO5	P06	PO7	P08	P09	PO10
CO1	2	2	3	2	2	3	2	2	3	3
CO2	1	2	3	1	2	1	3	2	3	3
CO3	2	2	3	2	2	3	3	1	2	2
CO4	3	1	3	3	2	1	2	3	1	3
CO5	3	3	3	2	3	2	2	2	3	2
W. AV	2.2	2	3.0	2	2.2	2.0	2.4	2.0	2.4	2.6

3- Strong, 2- Medium, 1- Low

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	3	2	2
CO2	1	2	3	1	2
CO3	2	2	3	2	2
CO4	3	1	3	3	2
CO5	3	3	3	2	3
W.AV	2.2	2	3.0	2	2.2

3- Strong, 2- Medium, 1- Low

		Semester III			
SEC		Entrepreneurship	Credits	H/W	T/P
Course	80138		2	2	P
Code:					
Objectives	1. To en	nable the students to understand the conc	ept of Entrep	reneursh	ip and
		arn the professional behaviour about Entr			
		lentify significant changes and trends whic	ch create nev	v business	S
	1 1	ortunities?			
		nalyse the institutional arrangement for po	otential busii	ness	
	1 1	ortunities.	_		
	_	rovide conceptual exposure on converting	ideas to an v	vomen	
		epreneurship			
Unit - I		ur-Meaning-Importance-Definition-Type	s-Functions	-Qualities	of an
		ur–Entrepreneurship as a career.			
Unit - II		omotion– Product selection – Form of			
		ng, water and power, raw material, m			other
		ral facilities – Licensing, registration and l			
Unit - III		larrangementsforentrepreneurshipdevelo	-		IC,SISI
		alfinancetoentrepreneurs-TIIC,SIDBI,Com	imercialbank	KS-	
** ** ***		osmall scale industries.			
Unit - IV		ort -Meaning and importance-Project r	-		-
		equirements of financial institutions)-	,		
	_	Technical feasibility– Financial feasibility	and econon	nic feasib	ility-
77 . 77	Breakeven a			1	T 1:
Unit - V	· -	urship development in India-Women er	-	-	India-
D - 6	Sickness in	small scale industries and their remedi	ai measures.		
References	unahin and l	Management of Small business Cor	tuo for En	+wanwan ar	. wala i sa
		Management of Small business – Cer	itre for En	treprenet	ırsnıp
_		seph Paul, N. Ajit kumar and T.Mampilly. pment.  Himalayan  Publishing  House.  Kh	an MA En	tropropoi	ırchin
		es in India. Kanishka Publishing House, D			
· •	•	nent. Ess Pee kay Publishing House, Chenr		avei, i . (1	. <i></i>
_	_	f Entrepreneur Development and Manager		wan Puhli	ichina
House.	Dynamics O	Emeropreneur Development and Manager	mene minar	iyani ubi	.5111115
Outcome:	After studie	d, the student will be able to			
Jucomei		nderstand the significance of entrepreneu	rship and ent	trepreneu	ır
	quali	<del>-</del>		3 <b>p. 0.100</b>	
	_	now about the developing ideas and techn	iaues of busi	ness.	
		nderstand about the procedures of startup	-		
		lentify the institutional support provided t		eurs.	
		nalyse the women entrepreneurship devel	-		
	1 5. 10 0.		- P		

СО	P01	P02	P03	P04	P05	P06	P07	P08	P09	PO10
CO1	3	3	2	3	2	2	3	3	2	2
CO2	2	2	2	1	3	2	3	3	3	2
CO3	1	3	3	3	3	1	2	2	3	3
CO4	2	3	2	1	2	3	1	3	2	2
CO5	2	2	3	2	2	2	3	2	3	3
W. AV	2.0	2.6	2.4	2.0	2.4	2.0	2.4	2.6	2.6	2.4

3- Strong, 2- Medium, 1- Low

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	3	2	3	2
CO2	2	2	3	2	2
CO3	2	1	2	3	3
CO4	2	2	3	3	2
CO5	2	2	1	2	3
W.AV	2.0	2.0	2.2	2.6	2.4

3- Strong, 2- Medium, 1- Low

			Semester IV				
	T/ OL				Credits	H/W	T/P
Course C	Code:	80141T	தமிழும்அறிவியலும்		3	4	Т
Objectiv es Unit - I	• அ • நா • தம தமிழர் • அ • தர் • தர் பழந்து	றிவியல்கலை எணவர்களுக்கு மிழில்அறிவிய மிழ்இலக்கியம் காள்ளுதல். வின்அறிவியல்க நிவியலும்மன ந்திணைப்பகு நாழில்நுட்பபே நாழில்நுட்பபே நாழில்நுட்பபே நாழில்நுட்பபே நாழில்நு	 ரிதவாழ்வும். ப்பும்குழலியலும். மலாண்மை.	வித்தல். த்துதல். வாக்கத்தூன்	னடுதல்.	றைகளை	மேற்
Unit - III	5. உள <b>இடை</b> 1. காப் 2 சிற்றி	ுவியல் <b>க்காலஇலக்கி</b> பபியங்களில்அ நிலக்கியங்களி	ல்அறிவியல்	•			
Unit - IV	இணை 1. இண 2. இண 3. இண 4. செய	்ணயத்தமிழ்க்க ஹையநூலகம் பற்கைநுண்ண	பன்பாடுஅறிமுகப் கல்விக்கழகம்				
Unit - V	<b>கடிதம்</b> 1. அջ 2. வி 3. தவ <b>4.</b> கரு <b>5.</b> பத்	<b>எழுதுதலும்கப்</b> லுவலகக்கடித ண்ணப்பப்பம ர்விவரப்படிவ ரத்துவிளக்கக்	 _ <b>டுரைஎழுதுதலும்</b> உறவுமுறைக்க	<b>ந</b> டிதப்பயிற்சி	1.		

- 1.அறிவியல்தமிழ்இன்றையநிலை இராதாசெல்லப்பன், உலகத்தமிழாராய்ச்சிநிறுவனம், சென்னை,
- 2.மணவைமுஸ்தபா, தமிழில்அறிவியல்படைப்பிலக்கியம், மணவைபப்ளிகேஷன், சென்னை.

- 3.கலைச்சொல்லாக்கம் மங்கை, சங்கராசபுரம், சென்னை.
- 4.தமிழர்வேளாண்மைமரபுகள் இல),செ.கந்தசாமி
- 5.சங்கஇலக்கியத்தில்வேளாண்சமுதாயம், பெ.மாதையன், நியூசெஞ்சுரிபுக்ஹவுஸ்.
- 6.தமிழில்அறிவியல்இதழ்கள்சாமுவேல்ரா.பார்வேந்தன்ஃபிஷ்கிறீன்பதிப்பகம், கோவை.7.அறிவியல்தமிழ் -பதிப்பாசிரியர்இராதாசெல்லப்பன்,பாரதிதாசன்பல்கலைக்கழகம், திருச்சிராப்பள்ளி,
- 8.இணையத்தமிழ்வரலாறு, மு.பொள்ளவைக்கோ, பாரதிதாசன்பல்கலைக்கழகம்.
- 9.இணையத்தமிழ், சந்திரிகாசுப்பிரமணியம் சந்திரோதயம்பதிப்பகம்.
- 10.இணையமும்இனியதமிழும் துரை, மணியரசன், இசைபதிப்பகம்.
- 11.கணினித்தமிழ், இல. சுந்தரம் விகடன்பிரசுரம்.
- 12.மாண்புமிகுமண், பாமயன், வம்சிபுக்ஸ்.
- 13.தமிழ்இலக்கியத்தில்அறிவியல்சிந்தனைகள்வானதிபதிப்பகம், சென்னை.

#### • தாய்மொழிவழியாகஅறிவியல்பற்றிச்சிந்திக்கும்திறன்பெற்றிருப்பர்.

# அறிவியல்கலைச்சொல்லாக்கம்பற்றியவிதிகள், நுணுக்கங்களைத்தெரிந்திருப்பர்.அறிவியல்தமிழ்வளர்ச்சியில்மொழிபெயர்ப்பின்பங்குகுறித்துஅறிந்திருப்பர்.

#### • மொழியறிவோடுசித்தனைத்திறனைப்பெறுவர்.

• மொழிப்பயிற்சிக்குத்தேவையான இலக்கணங்களைக்கற்பர்.

#### Outcome:

		Semester IV			
Tamil / OL /		Hindi	Credits	H/W	T/P
Course	80141H	हिन्दीभाषाऔरकंप्यूट <b>र</b>	3	4	T
Code:					
Objectives		टुरकेबारेमेंहिन्दीमेंजानकारीदेना			
		गिकहिन्दीकाविकाससमझना			
		र्नेंगकेपहलुओंपरप्रकाशडालना			
		ोकीसंशाधनोंकाइस्तेमालकरतेहुएहिन्दीकाप्रयोग			
Unit - I		<b>हिन्दी :</b> * कंप्यूटरकापरिक्चयऔरविकास * कंप			
Unit - II		<b>रहिन्दी :</b> * यूनिकोड * देवनागरीलिपि * हिन्दी			
Unit - III		ना सार्व या स्वा विचार है सा विचार है .	विभिन्नई-व	त्रर्निसंसाधन	*
		ौरसरकारीसंस्थाओंमेंप्रयुक्तहिन्दीभाषा			
Unit - IV		: * इंटरनेटपरहिन्दीपत्र-पत्रिकाएँ * हिन्दी	रीएस.एम.एस.	* हिन्दीटं	कण *
	हिन्दीकेविभिन				
Unit - V		<b>क्षापरआधारितकंप्यूटरसंबंन्ध</b> : *हिन्दीमेंपवर	पाइंटबनाना		
			मिंगूगलफ़ॉर्मतैय	रिकरना	*
		।।ओंकेबारेमेंसूचनाप्रदानदेना			
		र्केंग :नएसमयकासंवाद - संपा. संजयद्विवेदी			
2.जनसंचारऔ	रमासकल्चर् -	जगदीश्वरचतुर्वेदी			
3.मीडिया :भूमं	डलीकरणऔर	समाज - संपा. संजयद्विवेदी			
4.नएजमानेकी					
<b>5.</b> पत्रकारितासे	मीडियातक - म	<b>ग्नोजकुमार</b>			
Outcome:		मेंकंप्यूटरशब्दावलीकाज्ञानप्राप्तकरना।			
	2. देवन	गरीलिपिऔरयूनिकोडकाअंतरजाननाऔरकंप्यू	टरमेमप्रयोगकर	ना	
	3. विभि	न्नसंस्थानोंमेंप्रयुक्तहिन्दीकीजानकारीदेना।			
	<b>4.</b> ई-पत्र	-पत्रिकाओंकोआसानीसेपढलेना।			
	5. प्रतिय	ोगीपरीक्षाओंकेबारेमेंसमझना।			

		Semester IV						
E		English	Credits	H/W	T/P			
Course	80142	General English - IV	3	4	T			
Code:		_						
Objectives	1. To help learners imbibe goal-setting attitude.							
	2. To e	nable them to understand the value of inte	grity.					
	3. To h	elp them deal with emotions.						
	4. To te	tenses.						
	5. To e	5. To enhance reporting skills.						
Unit - I	Goal Setting (UNICEF)							
	Life Story							
	1.1 Fron	n Chinese Cinderella – Adeline Yen Mah						
	1.2 Why	I Write - George Orwell						
	Short Essay	7						
	1	ersonal Mastery – Robin Sharma						
		ne Love of Life – William Hazlitt						
Unit - II	Integrity							
	Short Story							
	2.1 The Taxi Driver – K.S. Duggal							
	2.2 Kabuliwala - Rabindranath Tagore							
	2.3 A Retrieved Reformation – O Henry							
	Extract from a play							
		Quality of Mercy (Trial Scene from	the Mercha	ant of Ve	nice ·			
	Shakespeare)							
Unit - III	Coping Wit	ch Emotions						
	Poem							
	3.1 Pride	e – Dahlia Ravikovitch						
	3.2 Pher	nomenal Woman – Maya Angelou						
	Reader's T	heatre						
	3.3 The	Giant's Wife A Tall Tale of Ireland – William	Carleton					
	3.4 The	Princess and the God : A Tale of Ancient Inc	dia					
Unit - IV	Language (	Competency Sentences						
		ole Sentences						
	1	pound Sentences						
	4.3 Com	plex Sentences						
	Direct and Indirect Speech							
Unit - V	Report Wr							
	_	ative Report						
		spaper Report						
	Drafting Sp							
		come Address						
	5.4 Vote of Thanks							
References	, 2.2 , 7000							
Toyt Rooks	(Latest Editi	(and)						

#### **Text Books (Latest Editions)**

Oxford Practice Grammar, John Eastwood, Oxford University Press Cambridge Grammar of English, Ronald Carter and Michael McCarthy George Orwell Essays, Penguin Classics

#### Web Resources

http:/www.gradesaver.com/George-orwell-essays/study/summary

O' Henry. A Retrieved Reformation.

https://americanenglish.state.gov/files/ae/resource\_files/a-retrieved-reformation.pdf

Maya Angelou. Phenomenal Woman.

https://www.poetryfoundation.org/poems/48985/phenomenal-woman

The Quality of Mercy, <a href="https://poemana1ysis.com">https://poemana1ysis.com</a>

https://www'.oxfordscho1ar1yeditions.coin/disp1ay/10.1093/actrade/9780199235742.book.

#### 1/actrade-9780199235742-div1-106- William Hazilitt

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On completion of this course, students will

- 1. Determine their goals
- 2. Identify the value of integrity.
- 3. Deal with emotions.
- 4. Frame grammatically correct sentences
- 5. Write cohesive reports.

			Semester IV				
CC/DSE/NM	IE/ SEC		Core Course		Credits	H/W	T/P
Course Code	80143	Commercial Production M	Broiler Ianagement	Chicken	4	4	Т
Objectives	<ul><li>2. To know t</li><li>3. To unders</li><li>4. To provide</li></ul>	he care and matand the feedingering the feedingering the contractions.	ew of broiler ind anagement of br g management o vledge broiler pro vledge on broiler	oiler chicks of broilers oduction per	formance		
Unit - I	Broiler Indu Terminology consumption batch system	istry: in broiler pr n - System of c	oduction - Over commercial broi egration - Comr	view of broler rearing -	All in-all o	ut and m	ultiple
Unit - II	Broiler Farm arrangemen Brooding ed broiler read managemen	t - Brooder ari Juipment - Chi Jing - Feeding t - Litter ma	nent: Preparation of herangement - Sheet comfort - Comfort - Comfort - Longement - Longement of vaccination of	ed ready - C rop score as – Watering ighting man	hick receivi ssessment – g managem	ng- Broo Equipm ent – C	ding – ent in Curtain
Unit - III	Physical for Quality and	uirements of b m of feed – N Sanitation – e - Seasonal m	roilers – Types o Mash, Crumble, Pipeline and anagement of bi	Pellet Wa Tank Clean	iter manage ing- Feeder	ement –	Water rinker
Unit - IV	Performance Livability - 1	European Effic	t: Weekly growth iency Factor(EE Day gain – Mea	F) - Product	ion Cost - (	Converted	Feed
Unit - V	<ul><li>Types of b</li><li>and Process</li><li>BCC, NMPPE</li></ul>	roiler marketin ed Chicken) of 3 on broiler ma t – Challenges a	ency - Customer g – Marketing ch marketing of b rketing - Trans and suggestions	nannel - Diffo roiler – Role port of broi	erent Ways ( of governm ler - Custom	(Wet Mar nent and	keting NGOs,

#### **Reference and Text books:**

Narahari D., and Kumararaj R., 2008. *Handbook of applied Broiler Production*. 1<sup>st</sup> Edition. Poultry Punch Publication (I) Pvt. Ltd., New Delhi.

Charles Burr, T., and Stuart O. Homer, 2011. *Commercial Poultry Farming*. 1st Edition. Biotech Books, New Delhi.

Jadhav N. V., and Siddique M. F., 2007. *Handbook of Poultry Production and Management*. 2<sup>nd</sup> Edition. Jaypee Brothers Medical Publishers Pvt. Ltd., New Delhi.

Bell D. Donald and Weaver D. William Jr., 2007. *Commercial Chicken Meat and Egg Production.* 5<sup>th</sup> Edition. Springer India Pvt. Ltd., Noida.

Sreenivasaiah., P. V., 2015. *Textbook of Poultry Science*. 1st Edition. Write & Print Publications, New Delhi

Suguna Management System: Standard Operating Manual – Broiler, 2012. Suguna Foods Pvt. Ltd.							
Outcome:	On successful completion of the course, the students could						
	1. Understand the broiler industry status of our country						
2. Acquire in depth knowledge broiler farm bio security and shed							
	preparation						
	3. Understand the production management of broilers						
	4. Gain knowledge on the importance of broiler production performance						
	5. Gain knowledge on the broiler production and marketing						

СО	P01	P02	P03	P04	P05	P06	P07	P08	P09	PO10
CO1	2	3	3	3	2	3	1	3	3	2
CO2	3	2	3	2	2	2	2	2	3	3
CO3	1	3	3	3	3	3	2	3	3	2
CO4	2	3	3	3	2	2	3	3	3	3
CO5	3	2	3	2	3	3	3	3	2	3
W. AV	2.2	2.6	3.0	2.6	2.4	2.6	2.2	2.8	2.8	2.6

3- Strong, 2- Medium, 1- Low

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	3	3	3	2
CO2	3	2	3	2	2
CO3	1	3	3	3	3
CO4	2	3	3	3	2
CO5	3	2	3	2	3
W.AV	2.2	2.6	3.0	2.6	2.4

3- Strong, 2- Medium, 1- Low

		Semester IV							
CC/DSE/NM	IE/ SEC	Core Course	Credits	H/W	T/P				
Course Cod		Poultry Diseases, Flock Health and Bi	<b>4</b>	4	Т				
		security							
<b>Objectives</b>	-	ride in depth knowledge on flock health and		-					
		erstand the control measures of bacterial a		-	-				
		an in depth knowledge on parasitic diseases preventive measures							
	-	ride in depth knowledge poultry disease dia	0						
		erstand the vaccines and vaccination in po	ıltry produc	tion					
Unit - I	Viral Disea								
		n – Important terminology - Classificatio							
		Etiology - Signs and lesions - Morbidity		-					
		diagnosis - Treatment - Prevention and							
		ease - Avian Influenza - Infectious Bursal	Disease - Inf	fectious Bro	onchitis				
		us Laryngo Tracheitis and Fowl Pox							
Unit - II	Bacterial Diseases:								
	Bacterial Diseases - Etiology - Transmission - Signs and lesions - Morbidity and								
	_	Diagnosis - Treatment - Prevention a			illosis -				
		osis - Salmonellosis - Fowl cholera and Inf	ectious Cory	/za					
Unit - III		nd Mycotic Diseases:							
		seases – Ecto and Endo parasites - Proto							
		ases - Aspergillosis - Mycotoxicosis – Afla		d Ochratoxi	icosis -				
** 1. ***	Nutritional deficiency disease and Metabolic diseases of poultry								
Unit - IV	Flock Healt		771						
	Bio security - Farm fencing - General farm hygiene - Fly and rodent control-								
		Sanitation procedures - Quarantine - Isolation - Shed cleaning and disinfection							
	-	- Water sanitation – Sanitizers - Disinfe	ction - Type	s of disinfe	ectants -				
** 1. **		and handling – Fumigation							
Unit - V	Medication and Vaccination:								
		Medication - Types of administration of medicines - General principles and							
	-	feed and water medication - Types and M			Pre and				
		ation care - Vaccination schedule for breed	ler, layer and	broilers					
Reference a	and Text boo	OKS:							

Susan E. Aiello and Michael a. Moses, 2014. *Merck Veterinary Manual*. 11<sup>th</sup> Edition. Merck Vet Manual.

Saif., Y. M., et al., 2013. Diseases of Poultry. 12th Edition. Blackwell Publishing, USA.

Bell D. Donald and Weaver D. William Jr., 2007. *Commercial Chicken Meat and Egg Production.* 5<sup>th</sup> Edition. Springer India Pvt. Ltd., Noida.

Vegad J. L., 2004. *Poultry Diseases: a guide for farmers and poultry professionals*. 2<sup>nd</sup> Edition. International Book Distributing Co., Lucknow, UP.

Sreenivasaiah., P. V., 2015. *Textbook of Poultry Science*. 1st Edition. Write & Print Publications, New Delhi

Thyagarajan. D., 2011. *Diseases of Poultry*. 1st Edition. Satish Serial Publishing House, New Delhi, India.

Narahari D., and Kumararaj R., 2008. *Handbook of applied Broiler Production*. 1st Edition. Poultry Punch Publication (I) Pvt. Ltd., New Delhi.

Outcome:	On successful completion of the course, the students could
	1. Acquire knowledge on the poultry diseases and bio security measures
	2. Acquired in depth knowledge poultry disease diagnosis

- 3. Understand the impact of fungal and nutritional deficiency diseases
- 4. Gain knowledge on disease preventive measures
- 5. Gain knowledge on poultry vaccination procedures

СО	P01	P02	PO3	P04	P05	P06	P07	P08	P09	PO10
C01	3	2	3	3	2	2	3	2	3	1
CO2	2	2	2	1	1	3	2	3	2	3
CO3	3	3	3	3	2	3	3	2	1	2
CO4	3	2	2	2	3	2	2	2	2	3
CO5	3	2	3	3	2	1	3	1	2	2
W. AV	2.8	2.2	2.6	2.4	2	2.2	2.6	2	2.0	2.2

3- Strong, 2- Medium, 1- Low

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	1	3	3	2
CO2	2	2	2	3	3
CO3	3	2	3	3	2
CO4	2	3	3	3	3
CO5	3	3	3	2	3
W.AV	2.6	2.2	2.8	2.8	2.6

3- Strong, 2- Medium, 1- Low

		Seme	ster IV					
CC/DSE/NM	IE/ SEC	Core Co	ourse	Credits	H/W	T/P		
Course Code	e: 80145	Practical in Broiler	Management and	3	5	P		
		Poultry Diseases						
Objectives		tand the diseases of po	-	neasures				
		he poultry farm biosecurity measures						
		t knowledge on vaccina						
		e in depth knowledge o		equipment				
		tand the commercial b						
1.		ut and construction of l						
2.		uipment and brooding		oiler chicks				
3.		ials, quality and its ma	~					
4.	Performanc	e Assessment of comm	ercial broilers					
5.	Post-morten	n examination of chicke	en					
6.	Vaccination	and medication metho	ds and procedures					
7.	Visit to broi	ler farm						
8.		and personal safety me						
9.	Water sanit	ation methods and drin	ker maintenance					
10.	Carcass disp	osal methods						
Outcome:		ul completion of the co	-					
	1. Understan	nd the poultry diseases	and its control measu	ıres				
	_	n depth knowledge on p	-	ity measures				
		nd the commercial broi	-					
		nd the importance of va						
	5. Better kno	owledge on broiler farm	n performance assess	ment				

СО	P01	PO2	PO3	P04	P05	P06	P07	P08	P09	PO10
CO1	2	2	3	3	2	3	2	1	2	3
CO2	3	3	3	2	3	2	3	2	3	3
CO3	1	1	3	2	2	3	2	2	2	3
CO4	3	2	3	3	2	2	3	2	3	3
CO5	3	2	3	2	3	2	3	3	2	3
W. AV	2.4	2.0	3.0	2.4	2.4	2.4	2.6	2	2.4	3.0

3- Strong, 2- Medium, 1- Low

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	1	2	2
CO2	3	3	3	3	3
CO3	2	2	2	3	2
CO4	3	3	3	3	3
CO5	3	3	2	3	3
W.AV	2.8	2.6	2.2	2.8	2.6

3- Strong, 2- Medium, 1- Low

			Semester l	V				
CC/DSE/NM	IE/ SEC		Allied Cou	rse		Credits	H/W	T/P
Course Cod	e: 80146	Poultry	Processing	and	Waste	3	3	T
		Manager						
Objectives			erview of chick			-	g	
		-	uality character			S		
			gg processing te			1	1	
		e in depth i	knowledge broile	er meat j	processin	g and qua	lity	
	control	in donth l	maruladaa an ma		ata mana	ann ont		
Unit - I	Egg Quality		nowledge on po	uitry wa	iste mana	gement		
Onit - i			nation and st	ructuro	Nutr	ritional a	nd Func	tional
			- Internal and					
	table eggs- G			Attinai	quarity 0	i eggs - i	i csci vati	011 01
Unit - II	Egg Process		abic 6883					
01110 11		U	ortance of egg p	rocessi	ng – Plan.	lavout an	d design (	of egg
			nciples involved					
			Egg desugrizatio					
	Quality Cont	rol measui	es - Packaging	of egg p	owder			
Unit - III	Poultry Mea							
			y meat process					
			ipment used ir		-	<b>-</b> -	-	_
			of slaughter – A		_		-	
		_	Dressing percer	_		rading – (	Lut-up-pa	arts –
Unit - IV			Packaging of po	ouitry m	eat			
Unit - IV			<b>altry Products:</b> lity deterioratio	n Dacl	zaging of	moat Ma	ntoriale ue	rod in
		-	Modern trends					
			sportation of Po	-			-	-
	_		egulation for foc	-		-		_
	and export of		•	ou produ	1000 001009	110000000		прото
Unit - V	Waste Man							
		_	of waste from p	oultry i	industry a	and their	utility - D	)esign
			g plant - Liquid v	-	-		-	_
			te managemen					
			ianure - Bio gas	_			-	_
			<ul> <li>Dead bird dis</li> </ul>	posal an	d Bio-haz	zards of Po	ultry was	te
Reference a	ind Text bool	ks:						

Mountney J. George and Parkhurst R. Carmen, 2001. Poultry Products Technology. 1st Edition. The Harwoth Press Inc., USA.

Narahari D., and Kumararaj R., 2008. Handbook of Applied Broiler Production. 1st Edition. Poultry Punch Publication (I) Pvt. Ltd., New Delhi, India.

NIIR Board of Consultants & Engineers. Preservation of Meat and Poultry Products. 1st Edition. Asia Pacific Business Press Inc., New Delhi.

Bell D. Donald and Weaver D. William Jr., 2007. Commercial Chicken Meat and Egg Production. 5<sup>th</sup> Edition. Springer India Pvt. Ltd., Noida.

Mahendra Kumar, Waste disposal systems in slaughterhouse suitable for developing countries, 2011, Dya publishing house, Delhi.

Alan R Sams Ph.D, Poultry Meat Processing, Washington Crc Press

Dr. Thulasi, Dr. V.Appa Rao, Dr. T. Santhil Kumar, *Hygienic Meat Handling System, 2008,* Directorate Of Extension Education, Chennai.

George J Mountney Ph.D, Carmen R Parkhurst Ph.D, *Poultry Products Technology3<sup>rd</sup> Edition* (2001), Viva Books Pvt. Ltd,New Delhi

Mahendra Kumar, *Waste disposal systems in slaughterhouse suitable for developing countries*, 2011, Daya publishing house, Delhi

#### **Outcome:**

On successful completion of the course, the students could

- 1. Understand the broiler and table egg processing
- 2. Acquire in depth knowledge on grading and quality characteristics of Table eggs
- 3. Understand the broiler meat processing technology
- 4. Understand the importance of broiler meat quality control
- 5. Gain knowledge on the poultry farm waste management

#### **Mapping Course Outcome VS Programme Outcomes**

СО	P01	PO2	P03	PO4	P05	P06	P07	P08	P09	PO10
CO1	2	2	3	2	3	3	3	3	3	2
CO2	3	2	2	2	2	3	3	3	2	3
CO3	3	2	2	2	2	3	3	3	3	3
CO4	3	1	1	2	2	3	3	3	2	3
CO5	3	3	2	2	1	3	3	3	3	3
W. AV	2.8	2	2.0	2.0	2.0	3.0	3.0	3.0	2.6	2.8

3- Strong, 2- Medium, 1- Low

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	2	1	2	3
CO2	3	3	3	2	3
CO3	2	3	2	2	2
CO4	2	3	3	1	2
CO5	2	3	1	3	1
W.AV	2.0	2.8	2.0	2.0	2.2

3- Strong, 2- Medium, 1- Low

		Semester IV								
CC/DSE/NM	IE/ SEC	Allied Course	Credits	H/W	T/P					
Course Code	e:   80147	Practical in Poultry Processing and	2	4	P					
		Waste Management								
Objectives	1.To underst	and the overview of egg and meat process	ing							
		bout the quality characteristics of table egg	;s							
		3. To understand the egg processing technology								
	4. To provide in depth knowledge broiler meat processing and quality									
	control									
	-	in depth knowledge on poultry waste man								
1.		External and internal quality assessment of chicken egg								
2.	Grading of ta	Grading of table eggs								
3.	Ante morten	n inspection of broilers								
4.	Processing of	f broiler chicken								
5.	Visit to egg p	processing plant								
6.	Visit to poul	ry processing plat								
7.	Visit to rend	ering plant								
8.	Poultry farm	waste management								
9.	Visit to hatch									
10.	Visit to bio g	as production unit								
Outcome:		l completion of the course, the students co	uld							
		d the broiler and table egg processing								
	-	depth knowledge table egg grading and qua	ality							
		d the broiler meat processing technology								
		d the importance of broiler meat quality co								
	5. Gain know	ledge on the poultry farm waste manageme	ent							

CO	P01	PO2	PO3	P04	P05	P06	P07	P08	P09	P010
CO1	2	3	3	2	2	2	3	3	2	1
CO2	2	2	3	1	1	1	3	2	2	2
CO3	2	2	3	3	3	3	3	3	3	2
CO4	2	2	3	3	2	3	2	3	2	2
CO5	2	1	3	3	2	2	3	3	1	3
W. AV	2.0	2.0	3.0	2.4	2.0	2.2	2.8	2.8	2.0	2

3- Strong, 2- Medium, 1- Low

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	3	3	2
CO2	3	2	3	3	3
CO3	3	1	2	2	3
CO4	2	3	1	3	2
CO5	2	2	3	2	3
W.AV	2.4	2.0	2.4	2.6	2.6

3- Strong, 2- Medium, 1- Low

#### **Semester V**

CC/DSE/NM	IE/ SEC	Core Course	Credits	H/W	T/P						
Course Code		Commercial Layer Chicken	4	4	T						
		<b>Production Management</b>									
Objectives	1. To underst	and the chicken layer industry									
	2. To know t	he layer commercial layer management									
	3. To Impart	knowledge on layer housing system and its	managemen	t							
	4. To provide	in depth knowledge on identification of god	od and poor l	ayer							
	5. To teach o	n the performance assessment on commer	cial layer								
	Production										
Unit - I	Egg Industry	g Industry:									
		in layer production - Layer production sta		_							
	•	ry - Role of National Egg Coordination Co	•	-							
	_	raits in layers - Commercial strains of layers - Layer production - Housing system -									
		eep litter, Cage and Raised Platform Cage housing									
Unit - II		nd Growing Management:									
	-	Biosecurity - Preparation of house to			_						
	_	ts – Brooding of chicks – Brooding equipr		•	_						
		t – Litter management – Lighting mana									
		- Cage rearing of chicks and growers -									
	•	e – Stocking density – Debeaking – Manage	ment of wea	k birds - D	ipping						
** 1. ***	and deworm										
Unit - III	Laying Man		D 1	, .	. ,						
	_	t of layers – Lighting management –		-	-						
		t of layers – Feeding and watering mana									
		ractices in Cage management - Culling - (		or layers -	Litter						
II:4 IX7		t – Moulting - Medication and vaccination o	r layers								
Unit - IV	Egg Product		Character Character								
		on – Egg production curve - Collection of eg			-						
		Marketing channels - Seasonal Managemen	t of layers –	Summer,	winter						
Unit - V		n management									
OHIL - V		ce Assessment:	ov. Not food	officiones	indev						
		e monitoring – HDEP, HHEP – Feed Efficiency	•	•							
		nce efficiency index - Egg, Feed price ratio-Production cost of a aintenance - Importance of record keeping - Registers to be main									
			registers to	be maint	ameu -						
Deference	nd Text hoo	ol systems (VCS)									

#### **Reference and Text books:**

Charles Burr, T., and Stuart O. Homer, 2011. *Commercial Poultry Farming*. 1st Edition. Biotech Books, New Delhi.

Jadhav N. V., and Siddique M. F., 2007. Handbook of Poultry Production

Sreenivasaiah., P. V., 2015. *Textbook of Poultry Science*. 1st Edition. Write & Print Publications, New Delhi

Bell D. Donald and Weaver D. William Jr., 2007. *Commercial Chicken Meat and Egg Production*. 5th Edition. Springer India Pvt. Ltd., Noida.

Rajini Asha R., 2011. Simply Poultry Science. 1st Edition. Alfa Publications, New Delhi

Jull A. Morley, 2008. *Poultry Husbandry*. 2nd Edition. J. V. Publishing House, Jodhpur

Jull A. Morley, 2007. Successful Poultry Management. 2nd Edition. Biotech Books, New Delhi.

Hurd M. Louis, 2003. Modern Poultry Farming. 1st Edition. International Book Distributing

Company, Lu	Company, Luck now							
Outcome:	On successful completion of the course, the students could							
	1. Understand the existing layer industry							
	2. Acquire in depth knowledge on commercial layer housing management							
	3. Understand the commercial layer production and table egg production							
	4. Understand the importance of collection and storage of table eggs							
	5. Gain knowledge on layer farm performance assessment							

СО	P01	PO2	PO3	P04	P05	P06	P07	P08	P09	PO10
CO1	2	2	3	2	3	3	2	1	2	2
CO2	2	2	3	2	2	3	3	3	3	3
CO3	3	2	3	2	3	2	2	2	3	2
CO4	3	2	3	3	3	3	3	3	3	3
CO5	3	3	3	2	3	3	3	2	3	3
W. AV	2.6	2.2	3.0	2.2	2.8	2.8	2.6	2.2	2.8	2.6

3- Strong, 2- Medium, 1- Low

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	3	3	2	2
CO2	1	2	2	2	3
CO3	3	3	2	3	2
CO4	3	2	3	3	3
CO5	2	3	2	2	2
W.AV	2.2	2.6	2.4	2.4	2.4

3- Strong, 2- Medium, 1- Low

			Sem	ester V			
CC/DSE/NM			Core C		Credits	H/W	T/P
Course Cod	e:   80152	Poultry Marketi		Economics and	4	4	T
Objectives				poultry production			
			-	ncial assistance in po	-		
				n the preparation of l		jects	
			0	n poultry marketing s	trategies		
TIIA T			oultry insura	ince policy			
Unit - I	Poultry Ec		ninology M	icro economics - M	Macroocono:	mice Fir	nancial
	_			rds and goals in chi			
	_			s of Financial Assist	-		_
		-	-	ck, compounded feed		or produc	don or
Unit - II	Poultry In		•	P			
	Definition	of integra	ation – Con	cepts of integration	n - Types	of integra	tion -
	Advantage	s and Cons	traints of int	egration methods - 0	rganization	set up for	broiler
				– Breeder farm integ			
			ı poultry eg	g and meat product	ion - Integ	ration and	l rural
** ** ***	developme						
Unit - III	Broiler Ma	_	مادمو سمماده	ting in India Chat	acian of no.	بالمحد بمصاد	atina
				ting in India – Strat 's and poultry meat 1			
				ting methods – Broik			
				gement – Broiler			
	opportunit			,00		01101110111901	
Unit - IV	Egg Marke						
				ational structure of			
			ng channels -	- Role of traders - Cha	allenges and	opportuni	ties on
	egg marke						
Unit - V	Poultry In					_	
				nsive cover for po			
	determinin Procedure			rt for broiler and l	ayers – Rat	es of pre	mium-
Reference a			ettlement				
			conomics, 200	)5. Pixie publications	(I) PVT Ltd.		
				nicken Production Ma		ition. Avi I	Pub.Co.
Inc., Westpo							
Bell D. Dona	ald and Wea	ver D. Wil	liam Jr., 200	7. Commercial Chicke	n Meat and I	Egg Produc	ction.
5th Edition.							
•				Edition. Alfa Publicati			
				Poultry Entrepreneurs		ch Books.	
Outcome:		-		urse, the students cou	ıld		
			-	ultry production	ما الممالة	ı.to	
	_	-	_	he preparation of bar	ikabie projec	CUS	
		-	ıltry marketir	ig strategies try insurance for sust	ninahlo grov	<sub>7</sub> th	
		_	_	assistance for the pol	_	/ UII	
	o. Gaiii Kiid	wieuge on	me miancial	assistance for the pot	nu y sector		

СО	P01	PO2	P03	P04	P05	P06	P07	P08	P09	PO10
CO1	2	3	3	2	2	3	2	2	3	1
CO2	3	3	2	1	3	2	2	3	3	2
CO3	2	3	3	3	1	2	3	3	3	2
CO4	3	3	2	3	2	2	3	3	3	2
CO5	2	2	3	2	2	3	3	3	3	3
W. AV	2.4	2.8	2.6	2.2	2.0	2.4	2.6	2.8	3.0	2

3- Strong, 2- Medium, 1- Low

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	3	2	3
CO2	1	1	3	2	2
CO3	3	2	3	2	3
CO4	3	2	3	3	3
CO5	3	3	3	2	3
W.AV	2.4	2	3.0	2.2	2.8

3- Strong, 2- Medium, 1- Low

			Sen	nester V				
CC/DSE/NM	E		Core C	Course		Credits	H/W	T/P
Course Code	<b>:</b> 80153			Technology	and	4	4	T
		Value Ad						
Objectives				nce of value a			eat	
				f chicken egg a				
		_	_	on quality enha				
	-	e in depth l	knowledge p	products prepa	ration f	rom poultry	meat	
	and egg	tand tha as	alita contra	al and muorraili	na lorra	on food nuo	l ata	
Unit - I			ianty contro	ol and prevaili	ng laws	on 100a proc	iucts	
Ullit - I	Egg Quality		roducte dov	elopment - Ni	utritivo	value of oge	ac Intorn	nal and
	-			nal Property (			_	
				eggs – Desig				
	production	ar varae e	dartion of	0880 20018	,,,,,	g production	01841	288
Unit - II	Egg Produc	ts:						
			g to egg pr	oducts – Impo	ortance	-Hard cook	ed eggs –	Pickled
				- Fried Eggs –				
	drinks – Egg	Snack foo	d - Packagi	ng of egg proc	lucts			
Unit - III	Poultry Mea							
				at – Factors				
				Proximate co				
			Value of me	at – Texture p	rofile of	meat – Sen	sory evalua	ation of
Unit - IV	poultry mea		ta.					
Unit - IV	Poultry Mea			mportance of	further	Processing	of noultry	moat -
		-	-	ration of Rea		_		
	_		-	t products – C	-			
	_	_	-	tort processin		_		
				sport of poult			•	
Unit - V	Quality Ass				-	-		
	Microbial sa	afety of po	ultry egg a	nd meat prod	ucts – I	Food safety a	and standa	rds Act
		_	_	of food busin			-	
			-	ied in Codex .			-	
		-		ole of WTO, IS				
	_	_	oultry mea	t, egg and tl	neir pr	oducts - Q	uality and	safety
	managemen							

#### Reference and Text books:

Mountney GJ. Poultry Products Technology. 2nd ED. AVI Publications

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Romanoff AL & Romanoff AJ. 1999. Avian Egg. John Wiley & Sons publications

StadelmanWL& Cotterill OJ. 2002. *Egg Science and Technology*. 4<sup>th</sup> ED. CBS publications

Alan R Samas Ph.D, *Poultry Meat Processing*, Washington CRC press.

George J Mountney Ph.D, Carmen R Parkhurst Ph.D, *Poultry Products Technology3<sup>rd</sup> Edition (2001)*, Viva Books Pvt. Ltd., New Delhi

Gracey JF. 1999. *Thornton's Meat Hygiene*. 10th Ed. WB. Saunders.

Niir Board of Consultants and Engineers, *Preservation of Meat pnd Poultry Products*, Asia Pacific Business Press Inc. Kamala Nagar, Delhi.

Dr. K Sundaresan, Dr. K Vanukopalan, Dr. K Subramanian, Dr. A Shyam Babu, *Meat and Meat Products*, Madras Veterinary College, Chennai.

Ashim Kumar Biswas, Prabhat Kumar Mandal, *Poultry, Egg and Fish Processing Technology (2014),* Stadium Press (India) Pvt. Ltd., Darya Ganj, New Delhi.

Outcome:	On successful completion of the course, the students co	uld

- 1. Understand the importance of value addition of chicken egg and meat
- 2. Acquire in depth knowledge on quality improvement of eggs
- 3. Understand the egg products preparation and quality control
- 4. Understand the importance and nutritive value of poultry meat
- 5. Gain knowledge on the poultry egg and meat products quality control

#### **Mapping Course Outcome VS Programme Outcomes**

СО	P01	PO2	P03	PO4	PO5	P06	P07	P08	P09	PO10
CO1	3	3	3	2	2	2	2	3	3	3
CO2	1	2	1	2	2	2	1	3	3	2
CO3	2	1	2	1	1	2	1	3	3	2
CO4	2	3	3	3	3	2	3	3	3	2
CO5	3	3	2	3	3	3	3	3	3	3
W. AV	2.2	2.4	2.2	2.2	2.2	2.2	2.0	3.0	3.0	2.4

3- Strong, 2- Medium, 1- Low

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	2	3	3
CO2	2	2	3	3	2
CO3	3	2	2	2	2
CO4	3	3	3	3	2
CO5	3	3	3	2	3
W.AV	2.8	2.4	2.6	2.6	2.4

3- Strong, 2- Medium, 1- Low

		Semester V			
CC/DSE/NM	IE / SEC	Core Course	Credits	H/W	T/P
Course Code	e: 80154	Diversified Poultry Production	4	4	Т
Objectives	1. To create	awareness on importance of diversified po	ultry produ	ction	
	2. To unders	tand on the management of ducks and gee	se		
	3. To provide	e knowledge on turkey, quail and guinea fo	wl production	on	
	4. To provide	e in depth knowledge on emu and ostrich n	nanagement	- •	
	5. To unders	tand the pet birds managerial procedures			
Unit - I	Manageme	nt of Ducks and Quails:			
		eds of ducks - Incubation- Systems of r			
	managemen	t - Management of egg and meat type d	ucks - Feed	ing require	ements
	and manage	ment - Vaccination and medication proce	dures		
		<b>uail</b> – Breed / Variety characteristics - He			
	Brooder m	anagement – System of rearing -	Feeding re	quirement	s and
	managemen	t – Management of egg and meat type qua	ils		
Unit - II	_	nt of Turkey and Guinea Fowl:			
	_	eeds of turkey - Incubation – Housing sys			
		rearing - Feeding requirements and			
	. •	- Turkey Egg and meat production syste		-	•
		Iousing system - Incubation - Brooder mar	nagement - S	System of r	earing
		requirements – Egg and meat production			
Unit - III		strich Management:			
		ing - Brooding and Rearing manageme			
		- Emu nutrition and breeder managemen			
		tems – Sex identification – <i>Ostrich</i> : Hou	_		
	_	Brooding - Ostrich paediatrics and rear			
	_	ts - system of feeding - Sex identification	n – Sex se	parate rea	ring –
	Products fro				
Unit - IV	_	nt of Pet Birds:			
		House design - Aviary - Perches - Breed	0	_	
		ts - House design - Aviary – Perches – Bre			
	_	<i>eon:</i> House design - Breeding – hand rea	ring - Choic	e of feed -	Squab
	production -				
Unit - V		nagement and Biosecurity:			
		ducks and its control measures - Diseas		-	
		Diseases of quail and its control measur		_	
		ol measures – Diseases of Emu and Ostric	1 – Diseases	of pet bird	ds.
	nd Text bool				
		A. Rajmanohar, G and Murugan, M. 2013		Opportun (	ities in
	-	ng Systems. Satish Serial Publishing House,			
		oultry Science. International Book Distribut		ıy	
Outcome:		al completion of the course, the students co			
		d the importance diversified poultry produ			
	_	depth knowledge on duck egg and meat p	roduction		
		d the Japanese quail Management	,		
		d the importance of turkey and guinea for	_	ent	
	5. Gain knov	vledge on the commercial production of pe	t bird		

СО	P01	PO2	P03	PO4	PO5	P06	P07	P08	P09	PO10
CO1	3	1	2	2	2	2	2	2	3	3
CO2	2	2	3	1	1	2	1	2	2	1
CO3	3	2	3	2	3	1	3	2	3	2
CO4	3	3	3	3	2	3	3	2	2	2
CO5	3	3	3	3	2	3	3	2	2	3
W. AV	2.8	2.2	2.8	2.2	2.0	2.2	2.4	2	2.4	2.2

3- Strong, 2- Medium, 1- Low

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	3	2	3
CO2	3	3	3	2	3
CO3	2	3	2	2	2
CO4	3	3	3	2	2
CO5	2	3	2	3	1
W.AV	2.4	2.8	2.6	2.2	2.2

3- Strong, 2- Medium, 1- Low

		Semester V							
CC/DSE/NM	IE/SEC	Core Course	Credits	H/W	T/P				
Course Code	e:   80155	Practical in Commercial Layer	<u> </u>	6	P				
		Management and Poultry Econom	nics						
		and Marketing							
Objectives		tand the commercial layer maintenance	ce						
		the judging of good and poor							
		knowledge on vaccination of layer bre							
		e in depth knowledge on economics of							
		tand the commercial broiler and table	egg marketing ch	annel					
1.		and Design of commercial layer farm			1				
2.		nsity – floor, feeder and drinker space r	equirements of co	mmercial	layers				
3.		e standards of commercial layers							
4.		rangements and Brooding equipment							
5.		and deworming							
6.		ood and poor layers							
7.		of commercial layers							
8. 9.		oing in layer farm	:lowa						
9.		paration for commercial layers and bro	ners						
10.		paration for breeder farm uction of broiler chicken							
12.	-	uction of table eggs							
13.		uction of table eggs uction of hatching eggs and day old chi	ielze						
14.	Egg marketi		icks						
15.		ken marketing channel							
16.		grated broiler farm							
17.		mercial layer farm							
Outcome:		ul completion of the course, the studen	ts could						
- accome		nd the layer management and its perfo							
		in depth knowledge on vaccination of k							
		nd the economics of poultry production							
		2 7 2	ortance of marketing channel on egg and broilers						
		owledge on layer farm economics and c							

СО	P01	PO2	P03	P04	P05	P06	P07	P08	P09	PO10
CO1	2	2	3	2	2	2	2	2	3	2
CO2	1	2	3	2	2	2	3	2	3	2
CO3	2	3	3	2	2	2	2	2	3	2
CO4	3	2	3	3	2	2	2	3	3	2
CO5	3	3	3	3	3	2	3	3	3	2
W. AV	2.2	2.4	3.0	2.4	2.2	2.0	2.4	2.4	3.0	2.0

3- Strong, 2- Medium, 1- Low

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	2	3	2
CO2	3	1	2	3	2
CO3	2	2	1	3	2
CO4	2	3	3	3	2
CO5	3	3	3	3	2
W.AV	2.4	2.2	2.2	3.0	2.0

3- Strong, 2- Medium, 1- Low

	Semester V										
CC/DSE/NM	IE/ SEC		Core	e Course		Credits	H/W	T/P			
Course Code	e: 80156	Practical	in		Products	4	6	P			
			and	Diversified	Poultry						
		Production									
Objectives				fegg and mea							
	2. To know about the quality characteristics of table eggs and chicken meat										
		3. To understand the egg and meat products quality control									
		-	wledge	e importance o	of diversif	ied poultry					
	productio		,		C: 1 1.	1.	. 1				
	_	ae in aeptn ki	nowled	dge on diversi	fied poult	ry disease co	ontrol				
1	Measures										
1.	Nutritive val										
	Grading of e										
3.		roperty of eg	gs								
4.		s preparation									
5. 6.		processing pla									
7.		ue of chicken		· oot							
8.		luation of chic		ieat ieat – Cut Up I	Darte Dob	oning Marin	ation				
9.	_	ducts prepara		ieat – cut op i	ar w, Debi	oming, Marm	lation				
10.		ng requiremen									
11.		sing requirem									
12.	•	ail housing re		nent							
13.		trich manager									
14.	Requiremen		_ · · · ·								
15.	•		Japane	ese quail farm	ıs						
16.	Visit to Emu	and Ostrich f	arms	•							
17.	Visit to Pet l	oids aviary									
18.	Vaccination	schedule for d	liversif	fied poultry							
Outcome:	On successfu	ıl completion	of the	course, the st	udents coi	uld					
		-		value addition							
	-	ı depth knowl	edge o	n quality char	acteristics	of chicken e	egg				
	and meat		_		_						
				cts preparatio							
		-		diversified p			_	ement			
	5. Gain knov	viedge on the o	diversi	fied poultry d	isease con	itrol measur	es				

СО	P01	P02	P03	P04	P05	P06	P07	P08	P09	PO10
CO1	2	3	3	3	2	2	1	3	2	2
CO2	2	2	2	3	2	3	2	2	3	2
CO3	2	2	2	3	2	2	2	1	2	2
CO4	3	2	2	2	3	2	3	2	2	2
CO5	2	2	1	2	3	2	3	3	2	3
W. AV	2.2	2.2	2.0	2.6	2.4	2.2	2.2	2.2	2.2	2.2

3- Strong, 2- Medium, 1- Low

СО	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	2	3	2
CO2	2	3	2	3	2
CO3	2	2	1	3	2
CO4	3	2	3	3	2
CO5	2	3	3	3	2
W.AV	2.2	2.4	2.2	3.0	2.0

3- Strong, 2- Medium, 1- Low

		Semester VI										
CC/DSE/NM	IE/ SEC	DSE		Credits	H/W	T/P						
Course Code	e: 80161	Internship		24	30	I						
Objectives	1. To ui	nderstand the poultry ind	ustry as whole									
	2. To	provide experience ir	integrated b	roiler pr	oduction	and						
		gement										
		3. To acquire in depth knowledge in breeder farm management										
		4. To impart hands on training on the day old chick production and										
		hatchery management										
		5. To understand the poultry disease diagnosis and control measures										
		ve an in depth knowledg			ology							
Directions		'I semester students will			c 11 .							
		group will undergo hand	s on training in ea	ach of the	tollowing	units						
	1	clic manner	mit a datailad va	mont of th	asim Inton	mahin						
		e end they have to subing programme by a com										
		nig programme by a com istitute.	mittee constituted	a by Onive	risity / ne	eau oi						
		s will be awarded based (	on the students no	acantatio	n							
	Name of uni			f days								
1.		Broiler units	25	j days								
2.	Breeder unit		25									
3.	Hatchery un		25									
4.		ase Diagnostic Laboratory										
5.	Feed mill un		10									
6.	Poultry Proc		5									
Outcome:		rstand the activities invo	ved in poultry se	ctor								
	2. Acquire knowledge on integrated broiler production, management and											
	marketing											
	3. Acquire in depth knowledge in breeder farm management and hatching											
	egg p	egg production										
	4. Hand	s on experience on d	ay old chick pr	oduction	and hat	chery						
		gement										
	_	ire knowledge in poultry				ires						
	<b>6.</b> Expe	rtise in poultry feed prod	action and feed m	ill technol	ogy							

СО	P01	PO2	P03	PO4	P05	P06	P07	P08	P09	PO10
CO1	2	3	3	3	2	2	3	3	2	2
CO2	2	3	2	3	2	3	2	2	3	2
CO3	3	2	2	3	2	3	2	3	3	2
CO4	3	3	2	2	3	2	3	2	3	3
CO5	3	2	3	2	3	2	3	3	3	3
W. AV	2.6	2.6	2.4	2.6	2.4	2.4	2.6	2.6	2.8	2.4

3- Strong, 2- Medium, 1- Low

	0		F		
CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	2	3	2
CO2	2	3	2	3	3
CO3	2	2	3	3	3
CO4	3	2	3	3	3
CO5	3	3	3	3	2
W.AV	2.4	2.4	2.6	3.0	2.6

3- Strong, 2- Medium, 1- Low

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