Syllabus of E-Commerce (SEC) for Sem VI

E- Commerce

1. Introduction to Ecommerce - A Brief History & Understanding E-commerce.

2. E-commerce business models and concepts - E-commerce Business Models, Major Business to Consumer (B2C) business models, Major Business to Business (B2B) business models, Business models in emerging E-commerce areas.

3. E-Commerce & Web - How the Internet and the web change business: strategy, structure and process. The Internet Today and Future Infrastructure.

4. E-commerce marketing concepts - The Internet Audience and Consumer Behaviour, Basic Marketing Concepts, Internet Marketing Technologies and business strategies.

5. Social networks, auctions, and portals - Social networks and online communities, online auctions, E-commerce portals.

18/10/22 18/10/22

Dr Pandey 18-10-2022

- Bioinformatics **Baxavanis**.
- Understanding Bioinformatics- **Marketa Zvelebil& Jeremy O. Baum**
- Nanobiotechnology: Concepts, Applications and Perspectives by **Christof M. Niemeyer and Chad A. Mirkin**
- Nanobiotechnology Handbook by **Tiffany Gardner**
- Nanobiotechnology: concepts, applications & perspectives **Niemeyer and Mirkin ed**.
- Nanobiotechnology in molecular diagnostics: current techniques and applications **Jain, KK.**
- "A Textbook of Nanoscience and Nanotechnology", Tata McGraw Hill Education **T. Pradeep**
- "Bionanotechnology", John Wiley & Sons, **David S Goodsell,**

PAPER 4

A) Practical based on theory Paper 1,2 and 3

B) Project Report

Skill Enhancement Course in Biotechnology:

(Optional)

TITLE: BIOPROCESSING AND ITS APPLICATIONS

- History and design of fermenters. Basic function of fermenter
- Construction of fermenter: Control of temperature, aeration and agitation.
- Fermentation processes: Batch fermentation, Fed Batch Fermentation, Continuous Fermentation and Scale-up Fermentation.
- Fermenters: types and application of different types of fermenters and general outline of fermentation process.
- Downstream Processing: Extraction and purification of microbial metabolites.
- Fermentation and fermentable microbes.
- Fermentation products: Alcoholic and Non-alcoholic beverages.
- Immobilization of cells and enzymes: Methods, Techniques, stabilization, effect of immobilization on enzyme properties.
- Application of immobilized enzymes and cells.
- Basic ideas of Entrepreneurship

SUGGESTED READINGS

- Principles of fermentation Technology, **Salisbury. Whitaker and Hall**
- Biochemistry **– U. Satyanarayan**

references, Power point presentation, Poster presentation, Scientific writing and ethics , copyright and plagiarism

Intellectual Property rights: concept of patent, copyright, trademarks, geographical indicators, IPR in Biotechnology and information technology. Ethics in Biological research

SEMESTER VI

Discipline Specific Elective Botany: Paper 3C Max. Marks: 60

Dissertations

Thesis / Project work/ Field survey and Presentation

SEMESTER VI

Skill Enhancement Course in Botany : Paper 1 (Optional)

Max. Marks: 30

TITLE : HERBAL TECHNOLOGY AND ETHNOBOTANY

Unit A **(10 Lectures)**

Herbal medicines its history, scope, utilization and marketing.

Pharmacognosy: Systematic position and medicinal uses of some familiar medicinal plants

Phytochemistry : Active principles and their extraction, phytochemical screening tests for secondary metabolites (Alkaloids, Flavonoids, Steroids, Triterpenoids and Phenolic compounds.

Unit B **(10 Lectures)**

Ethno botany : Concept, scope, objectives and medicoethnobotanical significance of some important plants.

Ethno botany and folk medicine : Application of natural products to certain diseases (Jaundice, Cardiac ailments, Infertility, Diabetes, Blood pressure and skin diseases)

Cocept of indigenous medicinal sciences (Ayurveda, Siddha, Unani) and conservation and propagation of medicinal and other plants having phytonutritive value .

4. SUBJECT SPECIFIC SKILL ENHANCEMENT COURSE (SYLLABUS)

COURSE CODE: 6SEC004

"SPECTROSCOPIC METHODS OF CHEMICAL ANALYSIS"

1. INTRODUCTION TO SPECTROSCOPY
   a. Spectroscopy and Electromagnetic Radiations
   b. Characteristics of Electromagnetic Radiations
   c. Electromagnetic Spectrum
   d. Absorption and Emission Spectra
2. ULTRA VIOLET AND VISIBLE SPECTROSCOPY
   a. Introduction
   b. The nature of Electronic Excitation
   c. Principles of Absorption Spectroscopy
   d. Instrumentation
   e. Sample Handling
   f. Presentation of Spectra

g. Certain Terms used in Electronic Spectrocopy

i. Chromophore

ii. Auxochrome

iii. Bathochromic Shift

iv. Hypsochromic Shift

v. Hyperchromic Shift

vi. Hypochromic Shift

h. The Effect of Conjugation

i. The Woodward-Fieser Rules for Dienes and Enones

j. Solvent Effect

CENTRE FOR LANGUAGES

COMMUNICATION SKILLS
&
PERSONALITY DEVELOPMENT PROGRAMME

Syllabus / Course Content

Duration : 30 sessions or 30 credit hours

Time : 1 hr per batch - 5 days a week

Theory

Module - I : Introduction to Communication Skills

(a) Orientation of English Language

(b) Introduction to Communication

(i) Definition (ii) Types (iii) Ways to effective communication

(c) Self Introduction in Formal Situation

(d) Social Etiquettes - Greetings, Body language, Dress - Code etc.

(e) Presentation & Interview Skills

Module - II : Get your fundamentals in place - Introduction of parts of speech with special reference to :

(a) Tenses

(b) Articles

(c) Prepositions

(d) Subject agreement with verbs

(e) Spotting Errors

Module - III : Pronunciation & Vocabulary Building

(a) Introduction to Phonetics

(b) Antonyms / Homophones

(c) Idioms + Phrases / One word substitution collective terms

(d) Resume Writing

Practical

Fluency Skills (Class room activities)

1. Group Discussion
2. JAM Session / Extempore
3. Role Plays / Situational Conversation
4. Picture Composition
5. English Movie Session

Approved.

B Massey

SUBJECT SPECIFIC SKILL ENHANCEMENT COURSE

EDUCATION

Nutrition and Health Education

Unit 1

Health education-

- Meaning
- Objective
- Healthy School Environment.

Unit 2

- Nutrition and balanced diet
- Malnutrition and diseases.

Unit 3

Health education programmes in school-

- Medical check-up
- First Aid Services
- Personal Hygiene
- Mid Day Meal Scheme

Unit 4

Meaning and Objectives.

- Physical education
- Mental Health Education
- Yoga Education

COURSE OUTCOME

Unit 1:- The students will be able to:-

- *Explain the Meaning of Health Education.*
- *Discuss the Objectives, Importance and Components of Health Education.*
- *Describe the meaning and essentials of A Healthy School Environment.*

Unit 2:- The students will be able to:-

- *Explain the Meaning of Nutrition.*
- *Discuss the Importance Nutrition.*
- *Define Balanced Diet and enlist its Various Components and the sources of food to gain these Nutrients.*
- *Define Malnutrition and state its Causes and Prevention.*
- *Enlist the different Deficiency Diseases and their Causes with the Preventive Measures.*

Unit 3:- The students will be able to:-

- *Explain the different Health Education Programmes in a School.*
- *Discuss the Components of Medical Check-up in a school.*
- *State the meaning of First-Aid Service and its essential Components.*
- *Discuss the Concept and importance of Personal Hygiene.*
- *Mention the Concept of Mid-Day Meal Scheme and its Need and Importance at School level.*

Unit 4:- The students will be able to:-

- *Explain the Meaning and Objectives of Physical Education.*
- *Discuss the Concept of Mental Health Education and list out its Objectives.*
- *Describe the Meaning, Importance and Objectives of Yoga Education.*

Ewing Christian College

Skill Enhancement Course
B.A. Semester VI
Subject- English

Total Marks-30

Language through Literature

Objectives:

The aim of the course is

- to enable the students to acquire the linguistic competence required in their professional life
- to introduce the learners with the basics of correct pronunciation and articulation to improve their communication skills

Course Content:

Unit I

Middle English Period

Unit II

The Renaissance

Unit III

The Neoclassical Period

Unit IV

The Romantic Period

Unit V

The Victorian Period

Unit VI

The Modern Period

Unit VII

Emergence and Development of New Literatures in English.

Examination Scheme:

Components	**Paper Presentation**	**End Term Exam (Objective)**
Weightage (%)	10	20

Suggested Readings

Adams ,V. *An Introduction to Modern English Word Formation*. London: Longman, 1973.

Chomsky, N. Halle, M. *The Sound Pattern of English*. New York:Harper and Row,1968.

Blamires, H. *A Short History of English Literature*. London:Rutledge, 1984.

David Daiches. A Critical *History of English Literature*.London: Mandarin,1994.

CORE MODULE SYLLABUS FOR ENVIRONMENTAL STUDIES FOR UNDER GRADUATE COURSES OF ALL BRANCHES OF HIGHER EDUCATION

Unit 1 : The Multidisciplinary Nature of Environmental Studies

- Definition, scope and importance *(2 lectures)*
- Need for public awareness.

Unit 2 : Natural Resources

- Renewable and non-renewable resources.
- Natural resources and associated problems.
  - (a) **Forest resources** : Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects 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, environmental 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, waterlogging, salinity, case studies.
  - (e) **Energy resources** : Growing energy needs, renewable and non renewable energy sources, use of alternate energy sources.
  - (f) **Land resources** : Land as a resource, land degradation, man induced landslides, soil erosion and desertification.
- Role of an individual in conservation of natural resources.
- Equitable use of resources for sustainable lifestyles.

(8 lectures)

Unit 3 : Ecosystems

- Concept of an ecosystem.
- Structure and function of an ecosystem.
- Producers, consumers and decomposers.
- Energy flow in the ecosystem.
- Ecological succession.
- Food chains, food webs and ecological pyramids.
- Introduction, types, characteristic features, structures and

functions of the following ecosystems :

(a) Forest ecosystem

(b) Grassland ecosystem

(c) Desert ecosystem

(d) Aquatic ecosystems (ponds, streams, lakes, rive oceans, estuaries)

(6 lectur

Unit 4 : Biodiversity and its Conservation

- Introduction—Definition : Genetic, species and ecosyste diversity.
- Biogeographical classification of India.
- Value of biodiversity : Consumptive use, productive us 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 wildlif man-wildlife conflicts.
- Endangered and endemic species of India.
- Conservation of biodiversity : *In-situ* and *Ex-sit* conservation of biodiversity.

(8 lectures

Unit 5 : Environmental Pollution

- Definition causes, effects and control measures of :
  (a) Air pollution
  (b) Water pollution
  (c) Soil pollution
  (d) Marine pollution
  (e) Noise pollution
  (f) Thermal pollution
  (g) Nuclear hazards
- Solid Waste Management : Causes, effects and contro measures of urban and industrial wastes.
- Role of an individual in prevention of pollution.
- Pollution case studies.
- Disaster management : Floods, earthquake, cyclone an landslides.

(8 lectures

Unit 6 : Social Issues and the Environment

- From Unsustainable to Sustainable development.
- Urban problems related to energy.

- Water conservation, rain water harvesting, watershed managment.
- Resettlement and rahabilitation of people ; its problems and concerns. Case studies.
- Enviromental ethics : Issues and possible solutions.
- Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case studies.
- Wasteland reclamation.
- Consumerism and waste products.
- Environment Protection Act.
- Air (Prevention and Control of Pollution) Act.
- Water (Prevention and control of Pollution) Act.
- Wildlife Protection Act.
- Forest Conservation Act.
- Issues involved in enforcement of environmental legislation.
- Public awareness. *(7 lectures)*

Unit 7 : Human Population and the Environment

- Population growth, variation among nations.
- Population explosion—Family Welfare Programme.
- Environment and human health.
- Human Rights.
- Value education.
- HIV/AIDS.
- Women and Child Welfare.
- Role of Information Technology in environment and human health.
- Case studies. *(6 lectures)*

Unit 8 : Field Work

- Visit to a local area to document enviromental 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 ecosystems—Pond, river, hill slopes, etc. (Field Work equal to 5 lecture hours).

Skill Enhancement Course(SEC)
Paper-II
General Science and Quantitative Aptitude

1. **Physics:** Motion, Force, Gravitation, Work, Energy & Power, Heat & Thermodynamics, Wave Motion & Sound, Light, Static Electricity, Current Electricity, Magnetism, Atomic and Nuclear Physics, Electronics & Communications, Important discoveries related to Physics, Space Programs, Nanotechnology.
   Teacher Incharge: Dr. A.K.Pathak, Dr. A.K.Shukla, Ms. Akansha George

2. **Chemistry:** Matter: nature & behavior, Atomic structure, Periodic classification of elements, Chemical bonding, Acids bases & salts, Nuclear energy, Fuels, Metallurgy, Carbon & its compounds, Polymer in everyday life, Pollution.
   Teacher Incharge: Dr. S. Sundarum, Dr. V. Bhadauria, V. Mishra

3. **Biology:** Origin of life & evolution classification of living organism, Cell organization in plants & animals elementary knowledge, Human physiology & Physiology of plants, General concept of human genetics, Deficiencies & communicable diseases, Biotechnology & patents.
   TeacherIncharge:
   Dr.P.C.Srivastava, Dr.S. Chaturvedi, Dr. A.K.Tewari, Dr. Mohd. Arif

4. **Information Technology:** Role of media, Social networking, Challenges to internal security through communication networks, Cyber & security, Money laundering, Brain drain.
   Teacher Incharge: Mr. Lokendra Tripathi, Mr. Abhishek Srivastava

5. **Quantitative Aptitude:** Percentage, interest, Compound interest, Numbers, Data interpretation, Graphs, Charts, Tables, Probability.
   Teacher Incharge: Dr. P. Khare, Dr. Santosh Kumar, Dr. Anil Shukla

(LALIT C-T. EUSEBIUS)
Dean, Faculty of Science
E.C-C.

Skill Enhancement Course 1: **Basics of Map Reading, Feature Identification and Navigation**

1. Marginal Information on the Topographic Maps (Top and Bottom): Sheet name, Sheet No., Scale, Edition, Index boundaries, Adjoining sheet diagram, Magnetic declination information, Contour Interval, Legend.
2. Colours used on maps and their functions
3. Reading Scale and Distances, Directions: Reading Directions
4. Coordinate System on Maps: Identifying and locating 5x5 min quadrangles, Grid Reference System and Reading and recording grid coordinates
5. Topographical Map Symbols: Relief, Settlement, Drainage, Transport, Infrastructure facilities
6. Topographic Features: Land Forms, Slopes, Settlement types and Patterns.

Skill Enhancement Course 2: **Basics of Graphics and Graphic Communication**

~~1. Introduction to Graphics and Graphic Communication~~

unit 2.1. Representation of Quantities: Comparative, Divided ~~(dichotomous)~~, Compound, Characterised, ~~and Split~~

unit 2.2. Representation of Trends ~~(line and curve); Arithmetically Scaled Coordinates; (including frequencies); Differentiated, Emphasised, Divisional trends; Irregular and Smooth Curves; Logarithmically Scaled Coordinates~~ Simple, divided, cummulative (Band graph)

unit 2.3. Representation of Divisions of Wholes (Circles and Rectangles): Unified, Differentiated, Emphasised, Grouped and Extended

unit 2.4. Representation of Organisation (Flow Charts): Basic, ~~Symbolic~~ relational, Continuous, and Compound

17/10/16

हिन्दी विभाग
यूनिवर्सल क्रिश्चियन महाविद्यालय, प्रयागराज

बी.ए द्वितीय सेमेस्टर के लिए प्रस्तावित एस० ई० सी० (S. E. C) पाठ्यक्रम

शीर्षक : हिन्दी भाषा शिक्षण
अंक : 30
क्रेडिट अंक : 02
परीक्षा समय : 01 घण्टा
प्रश्न : वस्तुनिष्ठ एवं लघूत्तरीय

पाठ्यक्रम :
1. हिन्दी शब्द भण्डार ------- 03
2. वाक्य शुद्धि ---------- 03
3. वर्तनी शुद्धि ---------- 03
4. वाक्यांश के लिए एक शब्द ------ 03
5. विशेषण एवं विशेष्य ------- 03
6. विराम चिन्ह एवं प्रूफ पठन ---- 03
7. मुहावरे एवं लोकोक्ति ------- 03
8. विलोम ---------- 03
9. पर्यायवाची एवं समानार्थी शब्द --- 03
10. उपसर्ग एवं प्रत्यय ------- 03

कुल अंक 30

पाठ्य पुस्तकें :
1. सामान्य हिन्दी : डॉ० शिवमूर्ति शर्मा
2. व्यावहारिक हिन्दी व्याकरण : डॉ० हरदेव बाहरी
3. शुद्ध हिन्दी : डॉ० विजय पाल सिंह
4. शब्दों का जीवन : भोला नाथ तिवारी
5. सामान्य हिन्दी : पृथ्वीनाथ पाण्डेय
6. हिन्दी भाषा : डॉ० हरदेव बाहरी

हिन्दी विभाग
यूनिवर्सल क्रिश्चियन महाविद्यालय,
इलाहाबाद, उ० प्र०

Skill Enhancement Course: (Optional)

...de : Biofertilizer and Mushroom Cultivation:

Unit A (10 lectures)

General Account of Microbes used as biofertilizer
Mechanism and Factors of Microbial Nitrogen Fixation
Isolation and cultivation of nitrogen fixing microbes (Rhizobium, Azospirrilum, Azotobacter, Anabaena, Mycorrhiza).
Concept of Organic Farming, Biocomposting and vermicomposting

Unit B (10 lectures)

Introduction, history, nutritional and medicinal value of edible Mushroom, types of edible mushroom available in India (Volvariella, Pleurotus, Agaricus etc)
Mushroom Cultivation technology (Preparation of Spawn, Multiplication , Mushroom bed preparation etc.)
Marketing of Biofertilizer and Mushroom.

Approved

SYLLABUS (POLITICAL SCIENCE VTH SEMESTER)

SKILL ENHANCEMENT COURSE

Panchayati Raj In India

1. Evolution of Panchayati Raj in India.
2. Legal and Constitutional Provisions regarding structures of Panchayati Raj.
3. 73rd & 74th constitutional amendment.
4. Rural Development
5. Problems: Autonomy, finance, accountability, peoples representative-bureaucracy relationship.

Readings:

1. S.R. Maheswari, Local Government in India, Agra 2003 (English & Hindi)
2. R.P. Joshi & G.S. Marwani, Panchayati Raj in India: Emerging Trends, Rawat Pub, Jaipur 2002.
3. S.N. Mishra, Dreams & Realities:- Expectation from Panchayati Raj, New Delhi. IIPA, 1996
4. S.N. Jha & P.C. Mathur, Decentralization and Local Politics, New Delhi, Sage, 1999.

SEC (Research Methodology) SYLLABUS
2 Credit Compulsory Course for Semester V Students

1. Science and Research — 6 hours

i. Assumption of Science
ii. Characteristics of Scientific Method
iii. Theory and Facts
iv. Nature of Research: Experimental , Corelational, Library, Historical, Survey, Observation

2. Experimental Design — 6 hours

i. Nature and Characteristics
ii. Types of Experimental Design: Between Group Design, Randomised Group Design, Matched Group Design, Within Group Design (repeated method), Mixed Group Design

3. Sampling — 5 hours

i. Population and Sample
ii. Probability and Certainty
iii. Sampling size and Sampling error
iv. Problem of Generalisation

4. Interview — 5 hours

i. Principle and Procedures
ii. Stages of Interview
iii. Question asking Skills
iv. Motivating Respondent
v. Termination of Interview

5. Analysis of Data and Report Writing — 5 hours

i. Data coding
ii. Data Cleaning
iii. Index Construction
iv. Statistical Analysis
v. Report Writing

6. Research Ethics — 2 hours

7. Recommendation and Suggestion — 1 hour

SKILL ENHANCEMENT COURSE (TRAVEL AND TOURISM)

TOTAL HOURS: 30 HRS

SYLLABUS / COURSE CONTENT (THEORY)

TOTAL HOURS: 16 HRS.

(UNIT -1)

BASIC FUNDAMENTALS: **TOTAL HOURS: 4 HRS**

Meaning, Scope and Development of Travel and Tourism, Indian Culture-Unity and Diversity, Tourism and Travel as an Industry – Concept and Issues.

(UNIT-2)

AREA SEARCH AND ANALYSIS: **TOTAL HOURS: 4 HRS**

Tourism in Indian States ,Tourism Paradigms: ECO-TOURSM, HERITAGE TOURISM, BEACH TOURISM AND WILDLIFE TOURISM, TEA TOURISM, HEALTH RESORTS.

(UNIT-3)

PERSONAL MANAGEMENT: **TOTAL HOURS: 4 HRS**

Personal turnout and bearing, Leadership Qualities, Communication, Decision Making and Public relation.

(UNIT-4)

PLANNING AND IMPLEMENTATIONS: **TOTAL HOURS: 4 HRS**

Tourist Policy of INDIA, Travel Agencies, Tourist Products and Tour Packages, Ticketing and Transportation, Tourist Information Centres and Management.

Skill Enhancement Course

For semester VIth

Topic- Urdu Journalism

Urdu Sahafat

Discipline Specific Paper

(DSE)

Credit Point: 2 or Hours 30

Examination time: 1:30 Hours Maximum marks 30

Curriculum

Unit-1 7 Hours

i. Sahafat ki mukhtasar tareekh
ii. Urdu main sahafat ki rewait
iii. Samaji taraqqi main sahafat ka kirdar
iv. Tahreek-e-Aazadi main urdu sahafat ka kirdar

Unit-2 7 Hours

i. Print media (Urdu sahafat ke hawale se)
ii. Electronic media (Radio aur Television)
iii. Internet aur cyber culture

Unit-3 10 Hours

Urdu ke kuch namwar sahafi

i. Raja Ram Mohan Rai
ii. Molvi Mohammad Baqir
iii. Sir Syed Ahmed Khan
iv. Maulana Hasrat Muhani
v. Maulana Mohd Ali Jauhar
vi. Neyaz Fatehpuri
vii. Maulana Abul Kalam Azad
viii. Shaukat Thanvi
ix. Hayat Ullah Ansari
x. Khwaja Ahmed Abbas

Unit-4 6 Hours

Aazadi ke baad mukhtalif riyasaton se shaya hone wale urdu Akhbarat. (sirf u.p., Bihar aur Delhi, Shamil-e-Nisab hain)

Imdadi Kutub

i.	Urdu sahafat (Aazadi ke baad)	-Dr Afzal Misbahi
ii.	Delhi mein urdu sahafat	-Anwar Dehalvi
iii.	Iblagiyat	-Mohd Shahid Husain
iv.	Hindustani Akhbar Navesi	-Mohd Ateeq Siddiqi
v.	Tareekh-e-sahafat	-Imdaad Sabri

OR

EWING CHRISTIAN COLLEGE ALLAHABAD
(An Autonomous Constituent College of A. U.)
DEPARTMENT OF ZOOLOGY
SKILL ENHANCEMENT COURSE –SEMESTER VI

B. Poultry practical (20 Marks,Time:45 minutes)

1. Sketch Work(10)
2. Mounting
3. Experiments(5)
4. Practical Record(5)

Sketch Work

a) Male Fowl
b) Female fowl
c) Head of female fowl
d) Head of male fowl
e) Leg of female fowl
f) Leg of male fowl
g) Different types of Feathers of fowl
h) Egg of fowl

Mounting

a) Feather
b) Embryo

Experiments

a) Shape index
b) Yolk index
c) Albumen index
d) Shell thickness

EWING CHRISTIAN COLLEGE
ALLAHABAD

(An Autonomous Constituent College of Allahabad University)

DEPARTMENT OF ZOOLOGY
SKILL ENHANCEMENT COURSE
(SEC ONE OF THE FOLLOWING FOR VI SEMESTER)

CREDITS: 02 **MAXIMUM MARKS: 30**

1. Poultry Theory

1. **General :** What is poultry? Present status, future and importance of poultry industry in India.
2. **Breeds, Breedings, Selection and Culling :** Study of important breeds of poultry, classification of chicken breeds, Important characteristics of chicken breed, Distinguishing features of different types of chickens, Merits and demerits of local & foreign breeds. Important characteristics of some breed of chicken. What is strain? ***Different types*** of commercial broiler and layer strain available in India, Principles of breeding poultry, Types of characters in poultry, Mating in poultry, Systems of breeding in poultry, Selection for improvement of poultry, Selection of a Breed for egg production, Breeding for Broiler Production (Quality Meat), Culling of poultry, Incubation and Hatching.
3. **Poultry Nutrition :** Principles of feeding poultry, Major nutrients in feed, Digestive system of fowl.
4. **Management of Chickens :** Brooding Managements, Growth management and layer management.
5. **Health Care and Management of Poultry diseases** (Causes, symptoms, transmission, prevention, treatment etc.) Ranikhet disease and Infectious Bursal disease.
6. **Egg Care and Management :**
   (a) Reproductive organs of fowl and formation of egg.
   (b) Egg, structure and its nutrients
   (c) Types of abnormal eggs, defects in egg, reasons for deterioration in egg quality.