

**BRS (HONOURS)
SEMESTER - 4
SYLLABUS**

COURSE NAME : BRS (Honors)

SEMSTER - 04

Sr. No	Subject Code	Subject Name	Subject Selection	Course Type	Credit	Internal Marks		Written Marks		Total Marks		Total Marks	Paper Duration
						Theory	Practical	Theory	Practical	Theory	Practical		
1		An introduction to public relations	Compulsory	FND-7	3	12--30	--	28-70	--	40-100	--	40-100	2:30 Hrs
2		Gujarati - મળેલા જીવ	Any One	FND-8	3	12--30	--	28-70	--	40-100	--	40-100	2:30 Hrs
3		HINDI - मीरा के पद			3	12--30	--	28-70	--	40-100	--	40-100	2:30 Hrs
4		Agronomy – Plant protection and pesticides management	Any One	CORE-9	3	12--30	--	20--50	08--20	32--80	08--20	40-100	2:00 Hrs
5		Animal Husbandry – Animal breeding & genetics			3	12--30	--	20--50	08--20	32--80	08--20	40-100	2:00 Hrs
6		Dairy Technology – dairy development			3	12--30	--	20--50	08--20	32--80	08--20	40-100	2:00 Hrs
7		Rural Extension – communication in extension			3	12--30	--	20--50	08--20	32--80	08--20	40-100	2:00 Hrs
8		Organic Farming - Agriculture Engineering			3	12--30	--	20--50	08--20	32--80	08--20	40-100	2:00 Hrs
9		Agronomy – Farming system	Any One	CORE-10	3	12--30	--	20--50	08--20	32--80	08--20	40-100	2:00 Hrs
10		Animal Husbandry - Animal breeding & genetics			3	12--30	--	20--50	08--20	32--80	08--20	40-100	2:00 Hrs
11		Dairy Technology – dairy development			3	12--30	--	20--50	08--20	32--80	08--20	40-100	2:00 Hrs
12		Rural Extension – communication in extension			3	12--30	--	20--50	08--20	32--80	08--20	40-100	2:00 Hrs
13		Organic Farming - Agriculture Engineering			3	12--30	--	20--50	08--20	32--80	08--20	40-100	2:00 Hrs
14		Agronomy - Agriculture Engineering	Any One	CORE-11	3	12--30	--	20--50	08--20	32--80	08--20	40-100	2:00 Hrs
15		Animal Husbandry - Animal breeding & genetics			3	12--30	--	20--50	08--20	32--80	08--20	40-100	2:00 Hrs
16		Dairy Technology – dairy development			3	12--30	--	20--50	08--20	32--80	08--20	40-100	2:00 Hrs
17		Rural Extension – communication in extension			3	12--30	--	20--50	08--20	32--80	08--20	40-100	2:00 Hrs
18		Organic Farming - Agriculture Engineering			3	12--30	--	20--50	08--20	32--80	08--20	40-100	2:00 Hrs
19		Agronomy – Agriculture Engineering		CORE-12	3	12--30	--	20--50	08--20	32--80	08--20	40-100	2:00 Hrs
20		Animal Husbandry - Animal breeding &			3	12--30	--	20--50	08--20	32--80	08--20	40-100	2:00 Hrs

		genetics											
21		Dairy Technology - dairy development	Any One		3	12--30	--	20--50	08--20	32--80	08--20	40-100	2:00 Hrs
22		Rural Extension – communication in extension			3	12--30	--	20--50	08--20	32--80	08--20	40-100	2:00 Hrs
23		Organic Farming – Agriculture Engineering			3	12--30	--	20--50	08--20	32--80	08--20	40-100	2:00 Hrs
24		Eminent Indian Educationists	Any One	ELT-9	3	12--30	--	28-70	--	40-100	--	40-100	2:30 Hrs
25		Rural Entrepreneurship Development			3	12--30	--	28-70	--	40-100	--	40-100	2:30 Hrs
26		Great Indian Philosophers			3	12--30	--	28-70	--	40-100	--	40-100	2:30 Hrs
27		Public Health and Hygiene.			3	12--30	--	28-70	--	40-100	--	40-100	2:30 Hrs

Name of Course	Semester	Core/ ELT/ Foundation	Course Cod	Course Title	Credits	Internal marks	External marks	Prac./ viva marks	Ext. exam time duration
BRS (HONORS)	4	FDN - 7		An introduction to public relations	03	30	70	00	2.30 hrs

FDN : 7 An introduction to public relations

Objectives :

- 1.To make the student aware of how public relations is useful in practice.
2. The student knows the roles of public relations in various agricultural organizations.
3. Students become familiar with media and public relations

Unit – 1

- 1.1 History of public relations
- 1.2 Concept of public relations
- 1.3 Importance of public relations

Unit – 2

- 2.1 Role of public relations in promoting sustainable agriculture.
- 2.2 Importance of public administration in maintaining environmental health
- 2.3 Social Environmental Awareness

Unit – 3

- 3.1 Roles of Public Relations in Agricultural Organizations
- 3.2 Various Activities of Agricultural Organizations
- 3.3 Agricultural Schemes Issued by Agricultural Organizations

Unit – 4

- 4.1 Media and Public Relations
- 4.2 Agricultural Public Relations Structure
- 4.3 Why Businesses Should Work with Social Media

References :

- 1.Grassroots Public Relation for Agriculture -Ed Lipscomb
- 2.The public relations handbook
- 3.Effective public relations and media strategy

Name of Course	Semester	Core/ELT/Foundation	Course Code	Course Title	Credits	Internal marks	External marks	Prac./viva marks	Ext. exam time duration
BRS (HONORS)	4	FDN - 8		Gujarati	03	30	70	00	2.30 hrs

FDN – 8 કૃતિ : મળેલા જીવ

લેખક : પન્નાલાલ પટેલ

એકમ : ૧(અ) નવલકથાનું સાહિત્ય સ્વરૂપ

(બ) સાહિત્ય સ્વરૂપનો ઉદ્ભવ,વિકાસ

(ક) નવલકથાકારના જીવન કાવનનો પરિચય

એકમ : ૨ ‘મળેલા જીવ’ નવલકથા કથાસાર,કથાવસ્તુ,વસ્તુસંકલના

એકમ : ૩ ‘મળેલા જીવ’ નવલકથાની સમીક્ષા

એકમ : ૪ ‘મળેલા જીવ’ નવલકથાનાં પાત્રોનો પરિચય

સંદર્ભ ગ્રંથ :

૧. મળેલા જીવ –પન્નાલાલ પટેલ

Name of Course	Semester	Core/ELT/Foundation	Course Code	Course Title	Credits	Internal marks	External marks	Prac./viva marks	Ext. exam time duration
BRS (HONORS)	4	FDN - 8		HINDI	03	30	70	00	2.30 hrs

FDN – 8 कृति -> मीरा के पद।

एकम - 1 -> मीराबाई का जीवन-चरित

एकम - 2 -> लौकिक और आध्यात्मिक प्रेम |

एकम - 3 -> भक्ति काव्य की पृष्ठभूमि |

एकम - 4 -> मीरा की काव्य-भाषा और संगीत

संदर्भ ग्रंथ

मीरा पदावली- neelotpal

Name of Course	Semester	Core/ELT/Foundation	Course Code	Course Title	Credits	Internal marks	External marks	Prac./viva marks	Ext. exam time duration
BRS (HONORS)	4	CORE - 9		AGRONOMY	03	30	50	20	2.00 hrs

Core : 9 AGRONOMY - Plant protection and pesticides management

Objectives:

1. Students know about the essential nutrients required by crops.
2. Know how to use chemical fertilizers properly.
3. To know about various diseases in plants.

Theory:

Unit-1

- 1.1 Concept of essential nutrients in crops
- 1.2 Functions of major and micronutrients
- 1.3 Deficiency symptoms of major and minor nutrients

Unit-2

- 2.1 Concept and types of fertilizers
- 2.2 Importance of chemical fertilizers
- 2.3 Measures to Increase Efficiency of Chemical Fertilizers
- 2.4 Considerations for Efficient Use of Chemical Fertilizers.

Unit-3

- 3.1 Pathogens of plants
- 3.2 Disease spreading factors
- 3.3 Principles of disease control
- 3.4 Integrated disease control

Unit-4

- 4.1 Concept of spraying equipment
- 4.2 Diagram of liquid spraying equipment
- 4.3 Precautions against application of spraying equipment
- 4.4 Essential care of spraying equipment

Practical:

1. Learning to apply liquid medicine
2. Familiarity with plant diseases
3. Learning to use chemical fertilizers

References:

1. Integrated Pest and Disease Management – Rajeev k. Upadhyay
2. Plant Nutrition manual – J. Benton Jones,jr
3. Bio fertilizer & organic Farming -Himadri panda

Name of Course	Semester	Core/ELT/Foundation	Course Cod	Course Title	Credits	Internal marks	External marks	Prac./viva marks	Ext. exam time duration
BRS (HONORS)	4	CORE – 9		Animal husbandry	03	30	50	20	2.00 hrs

Core : 9 Animal husbandry - Animal breeding & genetics

Objective:

- 1) To know the ideal methods of breeding.
- 2) To understand and utilize the breeding methods in animal improvement.
- 3) To understand the advantages of AI.
- 4) To know methods of collection of semen, evaluation, dilution and storage.
- 5) To know the structure of cooperative dairy sector.

Theory:

Unit-1

- 1.1 History of animal breeding
- 1.2 Importance of animal husbandry
- 1.3 Animal selection and types of selection
- 1.4 Methods of animal selection

Unit-2

- 2.1 Importance of animal husbandry
- 2.2 Methods of animal Husbandry
- 2.3 Methods of animal breeding
- 2.4 benefits of animal breeding

Unit-3

- 3.1 History of artificial insemination
- 3.2 Artificial insemination
- 3.3 Pros and cons of artificial insemination
- 3.4 Methods of artificial insemination
- 3.5 Precautions to be taken while doing artificial insemination.

Unit:4

- 4.1 Importance of artificial insemination Study of animal reproductive system
- 4.2 Signs of animal coming into heat
- 4.3 Signs of cow becoming pregnant, identification
- 4.4 Embryo implantation technique

Practical :

- (1) A visit to an ICDP sub centre and to observe the Artificial Insemination of a cow/buffalo
- (2) A visit to village milk cooperative society & A.I. center (3) Preparation of an artificial vagina and an A.I. gun.
- (3) Observation of structure of spermatozoa under microscope or at semen collection center.

Reference Books:-

1. PashuVyavastha: Arun D. Dave, University Granth Nirman Board, Ahmedabad.
2. "Godarshan" A monthly Gujarati Magazine, Dept. of A.H., Gujarat State, Gandhinagar.
3. A Text Book of Animal Husbandry: G.C. Banerjee; Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi.
4. A Hand Book of Animal Husbandry: By ICAR, New Delhi.
5. Animal Genetics and Breeding: By BAIF.
6. The Artificial Insemination of Farm Animals: E.J.

Name of Course	Semester	Core/ ELT/ Foundation	Course Code	Course Title	Credits	Internal marks	External marks	Prac./ viva marks	Ext. exam time duration
BRS (HONORS)	4	CORE – 9		Dairy technology	03	30	50	20	2.00 hrs

Core: 9 Dairy technology - dairy development

Objectives:

- 1.A Student knows about dairy
2. students foreigner animals know about species
- 3.students know about selection of animals.

Theory:

Unit: 1 Introduction and Establishment of a Dairy Farm:

- 1.1 Dairy development in India – Dairy Cooperatives (NDRI, NDDB, TCMPI)
- 1.2 Constraints of Present Dairy Farming and Future Scope of Dairy Farmer.
- 1.3 Selection of site for dairy farm, Systems of housing Loose housing system, Conventional Dairy Farm.
- 1.4 Records to be maintained in a dairy farm.

Unit: 2.Livestock Identification and Management:

- 2.1 Breeds of Dairy Cattle and Buffaloes-Identification of Indian cattle and buffalo breeds and Exotic breeds.
- 2.2 Methods of selection of Dairy animals.
- 2.3 Systems of inbreeding and crossbreeding.

Unit: 3 .Feed Management, Dairy Management, Cleaning and Sanitation

- 3.1 Basic Principles of Feed, Important Feed Ingredients, Feed formulation and Feed Mixing.
- 3.2 Operation Flood-Definition of Milk and Nutritive value of milk
- 3.3 ICMR recommendation of nutrients
- 3.4 Per Capita Milk production and availability in India and Andhra Pradesh

Unit: 4

- 4.1 Methods of Collection and Storage of Milk
- 4.2 Labelling and Storage of milk products.
- 4.3 Cleaning and sanitation of dairy farm Safety precautions to prevent accidents in an industry.

Practical:

1. visit to farmers rearing animals
2. a visit to the dairies

References:

1. Dairy Science; Petersen (W.E.) Publisher – Lippincott & Company
2. Principles and practices of Dairy Farm-Jagdish Prasad
3. Text book of Animal Husbandry – G C Benarjee
4. Hand book of Animal Husbandry-ICAR Edition
5. Outlines of Dairy Technology-Sukumar (De) – Oxford University press
6. Indian Dairy Products – Rangappa (K.S.) & Acharya (KT) – Asia Publishing House.

Name of Course	Semester	Core/ELT/Foundation	Course Code	Course Title	Credits	Internal marks	External marks	Prac./viva marks	Ext. exam time duration
BRS (HONORS)	4	CORE - 9		Rural extension	03	30	50	20	2.00 hrs

Core: 9 Rural extension- communication in extension

Objectives:

1. Students understand the importance of conveying communication in extension work.
2. Students become aware of the use of symbols in conveying communication
3. Students get information about different elements in communication.

Unit:- 1.communication

- 1.1 Importance of effective communication in extension work.
- 1.2 Definition and understanding of messaging.
- 1.3 Characteristics of Effective Communication Messages, Characteristics of Messages.

Unit-2.Factors of Communication

- 2.1 Some Factors Affecting Communication
- 2.2 Use of Symbols in Communication
- 2.3 Points to consider in the process of effective communication
- 2.4 Characteristics of a Communication

Unit : 3. listeners.

- 3.1 Definitions of audience
- 3.2 Types of audience
- 3.3 Things to know about audience
- 3.4 Definition of audience.

Unit :- 4 communication channels

- 4.1 Understanding communication
- 4.2 channels The reasons for those barriers to communication need to be taken into account to make communication channels effective.
- 4.3 Message handling.
- 4.4 methods of message handling.

Practical:

1. To study the methods of message preparation
2. State the types of audience
3. State the response of Sritao

Reference books:

1. Agricultural extension-Ishwarbhai Patel
2. Education Basic elements of extension education – Lieut. Piran Dhakan
3. Community Development and Agricultural Extension – Babubhai Awarani

Name of Course	Semester	Core/ELT/Foundation	Course Cod	Course Title	Credits	Internal marks	External marks	Prac./viva marks	Ext. exam time duration
BRS (HONORS)	4	CORE – 9		Organic farming	03	30	50	20	2.00 hrs

CORE - 9 : Organic farming - Agriculture Engineering

Objectives :

- 1) Study construction related to agriculture
- 2) Study about hydrology.
- 3) Gain knowledge about water export.

Theory

Unit – 1

- 1.1 Different types of engineering structures,
- 1.2 Matters to be considered in building construction, such as building location, Abhinyas, Abhikalpa etc
- 1.3 Materials used in building construction.
- 1.4 Collector structures. Like godowns, mine barns for cattle, hay godowns, silos etc.

unit – 2 Construction of fences, roads and cow sheds

- 2.1 Farm fence, its types,
- 2.2. Introduction of roads, importance in agriculture. Advantages of good roads
- 2.3. Classification of roads, selection of roads, specification of good roads.
- 2.4. Road planning and execution

Unit – 3 Water Science

- 3.1 Introduction to Water Science, Water Cycle,
- 3.2 Water cycle processes, and evaporation and transpiration
- 3.3 Types of water sources and rainwater harvesting
- 3.4 Knowledge and management of water resources

Unit – 4 Measurement of Rainfall

- 4.1 Concept of Rainwater Harvesting

- 4.2 Construction of Checkdam
- 4.3 Farm Ponds
- 4.4 Method of Well Recharge
- 4.5 Benefits of Rainwater Harvesting

Practical :

- 1. Visit to godowns being constructed for agriculture
- 2. Making hair for agriculture
- 3. Getting information about the current status of water resources.

References :

- 1. Agricultural Engineering—Babubhai Awarani.
- 2. Agricultural Engineering Part-1,2.-Ambalal Patel,
- 3. Irrigation Engineering-Dr.RP Rethlia
- 4. Water Resources Management-Dr.RP Rethlia
- 5. Natural Resources – Development and-- Babubhai Awarani,

Name of Course	Semester	Core/ELT/Foundation	Course Cod	Course Title	Credits	Internal marks	External marks	Prac./viva marks	Ext. exam time duration
BRS (HONORS)	4	CORE - 10		Agronomy	03	30	50	20	2.00 hrs

CORE – 10: Agronomy - Farming system

Objectives:

- 1.To make the student know about the types of assistance schemes offered to farmers
2. Different accounting papers used in agriculture.
3. To know about the various implements used in agriculture.

Theory

Unit-1

- 1.1 Types of farmers
- 1.2 Status of small and marginal farmers in the country
- 1.3 Difference between marginal and small farmers
- 1.4 Support schemes for small and marginal farmers

Unit-2

- 2.1 Concept of farm records and accounts
- 2.2 Types of agricultural accounting Farm records
- 2.3 Methods of farm accounting
- 2.4 Advantages of farm record

Unit-3

- 3.1 Selection of land for cultivation and types of cultivation
- 3.2 Classification of types of cultivation
- 3.3 Primary farm implements
- 3.4 Tools for breaking thatch

Unit-4

- 4.1 Implements for leveling the land

4.2 Intercultivation implements

4.3 Harvesting Later kneading tools

4.4 Hand tools

Practical :

1. Visit to small marginal farmers
2. Preparation of farm account sheets
3. Visit to farmers using traditional implements.

Reference:-

1. 1 Agricultural Engineering—Babubhai Awarani.
2. Agricultural Engineering Part-1,2.-Ambalal Patel

Name of Course	Semester	Core/ELT/Foundation	Course Code	Course Title	Credits	Internal marks	External marks	Prac./viva marks	Ext. exam time duration
BRS (HONORS)	4	CORE - 10		Animal husbandry	03	30	50	20	2.00 hrs

CORE – 10 : Animal husbandry - Animal breeding & genetics

Objective:

- 1.To know the ideal methods of breeding.
- 2.To understand and utilize the breeding methods in animal improvement.
- 3.To understand the advantages of AI.
- 4.To know methods of collection of semen, evaluation, dilution and storage.
- 5.To know the structure of cooperative dairy sector.

Theory:

Unit-1

- 1.4 History of animal breeding
- 1.5 Importance of animal husbandry
- 1.6 Animal selection and types of selection
- 1.4 Methods of animal selection

Unit-2

- 2.1 Importance of animal husbandry
- 2.2 Methods of animal Husbandry
- 2.3 Methods of animal breeding
- 2.4 benefits of animal breeding

Unit-3

- 3.1History of artificial insemination
- 3.2 Artificial insemination
- 3.3 Pros and cons of artificial insemination
- 3.4 Methods of artificial insemination
- 3.5 Precautions to be taken while doing artificial insemination.

Unit:4

- 4.1 Importance of artificial insemination Study of animal reproductive system
- 4.2 Signs of animal coming into heat
- 4.3 Signs of cow becoming pregnant, identification
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Practical :

- 1. A visit to an ICDP sub centre and to observe the Artificial Insemination of a cow/buffalo
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BRS (HONORS)	4	CORE - 10		Dairy technology	03	30	50	20	2.00 hrs

CORE – 10 : Dairy technology - dairy development

Objectives:

- 1.A Student knows about dairy
2. students foreigner animals know about species
- 3.students know about selection of animals.

Theory:

Unit: 1 Introduction and Establishment of a Dairy Farm:

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- 3.2 Operation Flood-Definition of Milk and Nutritive value of milk
- 3.3 ICMR recommendation of nutrients
- 3.4 Per Capita Milk production and availability in India and Andhra Pradesh

Unit: 4

- 4.1 Methods of Collection and Storage of Milk
- 4.2 Labeling and Storage of milk products.
- 4.3 Cleaning and sanitation of dairy farm Safety precautions to prevent accidents in an industry.

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BRS (HONORS)	4	CORE - 10		Rural extension	03	30	50	20	2.00 hrs

CORE – 10 : _Rural extension - - communication in extension

Objectives:

- 1.Students understand the importance of conveying communication in extension work.
- 2.Students become aware of the use of symbols in conveying communication
- 3.Students get information about different elements in communication.

Unit:- 1.communication

- 1.3 Importance of effective communication in extension work.
- 1.4 Definition and understanding of messaging.
- 1.3 Characteristics of Effective Communication Messages, Characteristics of Messages.

Unit-2.Factors of Communication

- 2.1 Some Factors Affecting Communication
- 2.2 Use of Symbols in Communication
- 2.3 Points to consider in the process of effective communication
- 2.4 Characteristics of a Communication

Unit : 3. listeners.

- 3.1 Definitions of audience
- 3.2 Types of audience
- 3.3 Things to know about audience
- 3.4 Definition of audience.

Unit :- 4 communication channels

- 4.1Understanding communication
- 4.2channels The reasons for those barriers to communication need to be taken into account to make communication channels effective.
- 4.3Message handling.
- 4.4 methods of message handling.

Practical :

- 1.To study the methods of message preparation
- 2.State the types of audience
- 3.State the response of Sritao

Reference books:

- 1.Agricultural extension-Ishwarbhai Patel
- 2.Education Basic elements of extension education – Lieut. Piran Dhakan
- 3.Community Development and Agricultural Extension – Babubhai Awarani

Name of Course	Semester	Core/ELT/Foundation	Course Code	Course Title	Credits	Internal marks	External marks	Prac./viva marks	Ext. exam time duration
BRS (HONORS)	4	CORE - 10		Organic farming	03	30	50	20	2.00 hrs

CORE - 10: Organic farming - Agriculture Engineering

Objectives :

1. Study construction related to agriculture
2. Study about hydrology.
3. Gain knowledge about water export.

Theory

Unit – 1

- 1.1 Different types of engineering structures,
- 1.2 Matters to be considered in building construction, such as building location, Abhinyas, Abhikalpa etc
- 1.3 Materials used in building construction.
- 1.4 Collector structures. Like god owns, mine barns for cattle, hay god owns, silos etc.

unit – 2 Construction of fences, roads and cow sheds

- 2.1 Farm fence, its types,
- 2.2. Introduction of roads, importance in agriculture. Advantages of good roads
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- 3.3 Types of water sources and rainwater harvesting
- 3.4 Knowledge and management of water resources

Unit – 4 Measurement of Rainfall

- 4.1 Concept of Rainwater Harvesting
- 4.2 Construction of Check dam
- 4.3 Farm Ponds
- 4.4 Method of Well Recharge
- 4.5 Benefits of Rainwater Harvesting

Practical :

- 1.Visit to godowns being constructed for agriculture
- 2.Making hair for agriculture
- 3.Getting information about the current status of water resources.

References :

- 1.Agricultural Engineering—Babubhai Awarani.
- 2.Agricultural Engineering Part-1,2.-Ambalal Patel,
- 3.Irrigation Engineering-Dr.RP Rethlia
- 4.Water Resources Management-Dr.RP Rethlia
- 5.Natural Resources – Development and-- Babubhai Awarani,

Name of Course	Semester	Core/ ELT/ Foundation	Course Code	Course Title	Credits	Internal marks	External marks	Prac./ viva marks	Ext. exam time duration
BRS (HONORS)	4	CORE – 11		Agronomy	03	30	50	20	2.00 hrs

CORE – 11 Agronomy Agriculture Engineering

Objectives :

- 1.Study construction related to agriculture
- 2.Study about hydrology.
3. Gain knowledge about water export.

Theory

Unit – 1

- 1.1 Different types of engineering structures,
- 1.2 Matters to be considered in building construction, such as building location, Abhinyas, Abhikalpa etc
- 1.3 Materials used in building construction.
- 1.4 Collector structures. Like god owns, mine barns for cattle, hay god owns, silos etc.

unit – 2 Construction of fences, roads and cow sheds

- 2 1.Farm fence, its types,
- 2.2. Introduction of roads, importance in agriculture. Advantages of good roads
- 2.3.Classification of roads, selection of roads, specification of good roads.
- 2.4.Road planning and execution

Unit – 3 Water Science

- 3.1 Introduction to Water Science, Water Cycle,
- 3.2 Water cycle processes, and evaporation and transpiration
- 3.3 Types of water sources and rainwater harvesting
- 3.4 Knowledge and management of water resources

Unit – 4 Measurement of Rainfall

- 4.1 Concept of Rainwater Harvesting
- 4.2 Construction of Check dam
- 4.3 Farm Ponds
- 4.4 Method of Well Recharge
- 4.5 Benefits of Rainwater Harvesting

Practical :

1. Visit to godowns being constructed for agriculture
2. Making hair for agriculture
3. Getting information about the current status of water resources.

References :

1. Agricultural Engineering—Babubhai Awarani.
2. Agricultural Engineering Part-1,2.-Ambalal Patel,
3. Irrigation Engineering-Dr.RP Rethlia
4. Water Resources Management-Dr.RP Rethlia
5. Natural Resources – Development and-- Babubhai Awarani,

Name of Course	Semester	Core/ ELT/ Foundation	Course Code	Course Title	Credits	Internal marks	External marks	Prac./ viva marks	Ext. exam time duration
BRS (HONORS)	3	CORE – 11		Animal husbandry	03	30	50	20	2.00 hrs

CORE – 11 Animal husbandry Animal breeding & genetics

Objective:

- 1.To know the ideal methods of breeding.
- 2.To understand and utilize the breeding methods in animal improvement.
- 3.To understand the advantages of AI.
- 4.To know methods of collection of semen, evaluation, dilution and storage.
- 5.To know the structure of cooperative dairy sector.

Theory:

Unit-1

- 1.1History of animal breeding
- 1.2Importance of animal husbandry
- 1.3Animal selection and types of selection
- 1.4 Methods of animal selection

Unit-2

- 2.1 Importance of animal husbandry
- 2.2 Methods of animal Husbandry
- 2.3 Methods of animal breeding
- 2.4 benefits of animal breeding

Unit-3

- 3.1History of artificial insemination
- 3.2 Artificial insemination
- 3.3 Pros and cons of artificial insemination
- 3.4 Methods of artificial insemination
- 3.5 Precautions to be taken while doing artificial insemination.

Unit:4

- 4.1Importance of artificial insemination Study of animal reproductive system
- 4.2 Signs of animal coming into heat
- 4.3 Signs of cow becoming pregnant, identification
- 4.4 Embryo implantation technique

Practical :

- 1.A visit to an ICDP sub centre and to observe the Artificial Insemination of a cow/buffalo
- 2.A visit to village milk cooperative society & A.I. center (3) Preparation of an artificial vagina and an A.I. gun.
- 3.Observation of structure of spermatozoa under microscope or at semen collection center.

Reference Books:-

- 1.PashuVyavastha: Arun D. Dave, University Granth Nirman Board, Ahmedabad.
- 2.“Godarshan” A monthly Gujarati Magazine, Dept. of A.H., Gujarat State, Gandhinagar.
- 3.A Text Book of Animal Husbandry: G.C. Banerjee; Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi.
- 4.A Hand Book of Animal Husbandry: By ICAR, New Delhi.
- 5.Animal Genetics and Breeding: By BAIF.
- 6.The Artificial Insemination of Farm Animals: E.J.

Name of Course	Semester	Core/ELT/Foundation	Course Code	Course Title	Credits	Internal marks	External marks	Prac./viva marks	Ext. exam time duration
BRS (HONORS)	4	CORE- 11		Dairy technology	03	30	50	20	2.00 hrs

CORE – 11 Dairy technology - dairy development

Objectives:

- 1.A Student knows about dairy
2. students foreigner animals know about species
- 3.students know about selection of animals.

Theory:

Unit: 1 Introduction and Establishment of a Dairy Farm:

- 1.1 Dairy development in India – Dairy Cooperatives (NDRI, NDDB, TCMPPF)
- 1.2 Constraints of Present Dairy Farming and Future Scope of Dairy Farmer.
- 1.3 Selection of site for dairy farm, Systems of housing Loose housing system, Conventional Dairy Farm.
- 1.4 Records to be maintained in a dairy farm.

Unit: 2.Livestock Identification and Management:

- 2.1 Breeds of Dairy Cattle and Buffaloes-Identification of Indian cattle and buffalo breeds and Exotic breeds.
- 2.2 Methods of selection of Dairy animals.
- 2.3 Systems of inbreeding and crossbreeding.

Unit: 3 .Feed Management, Dairy Management, Cleaning and Sanitation

- 3.1 Basic Principles of Feed, Important Feed Ingredients, Feed formulation and Feed Mixing.
- 3.2 Operation Flood-Definition of Milk and Nutritive value of milk
- 3.3 ICMR recommendation of nutrients
- 3.4 Per Capita Milk production and availability in India and Andhra Pradesh

Unit: 4

- 4.1 Methods of Collection and Storage of Milk
- 4.2 Labeling and Storage of milk products.
- 4.3 Cleaning and sanitation of dairy farm Safety precautions to prevent accidents in an industry.

Practical:

1. visit to farmers rearing animals
2. a visit to the dairies

References:

1. Dairy Science; Petersen (W.E.) Publisher – Lippincott & Company
2. Principles and practices of Dairy Farm-Jagdish Prasad
3. Text book of Animal Husbandry – G C Benarjee
4. Hand book of Animal Husbandry-ICAR Edition
5. Outlines of Dairy Technology-Sukumar (De) – Oxford University press
6. Indian Dairy Products – Rangappa (K.S.) & Acharya (KT) – Asia Publishing House.

Name of Course	Semester	Core/ELT/Foundation	Course Code	Course Title	Credits	Internal marks	External marks	Prac./viva marks	Ext. exam time duration
BRS (HONORS)	4	CORE –11		Rural extension	03	30	50	20	2.00 hrs

CORE – 11 : Rural extension - communication in extension

Objectives:

- 1.Students understand the importance of conveying communication in extension work.
- 2.Students become aware of the use of symbols in conveying communication
- 3.Students get information about different elements in communication.

Unit:- 1.communication

- 1.1Importance of effective communication in extension work.
- 1.2Definition and understanding of messaging.
- 1.3Characteristics of Effective Communication Messages, Characteristics of Messages.

Unit-2.Factors of Communication

- 2.1 Some Factors Affecting Communication
- 2.2 Use of Symbols in Communication
- 2.3 Points to consider in the process of effective communication
- 2.4 Characteristics of a Communication

Unit : 3. listeners.

- 3.1 Definitions of audience
- 3.2 Types of audience
- 3.3 Things to know about audience
- 3.4 Definition of audience.

Unit :- 4 communication channels

- 4.1Understanding communication
- 4.2 channels The reasons for those barriers to communication need to be taken into account to make communication channels effective.
- 4.3 Message handling.
- 4.4 methods of message handling.

Practical:

- 1.To study the methods of message preparation
- 2.State the types of audience
- 3.State the response of Sritao

Reference books:

- 1.Agricultural extension-Ishwarbhai Patel
- 2.Education Basic elements of extension education – Lieut. Piran Dhakan
- 3.Community Development and Agricultural Extension – Babubhai Awarani

Name of Course	Semester	Core/ELT/Foundation	Course Code	Course Title	Credits	Internal marks	External marks	Prac./viva marks	Ext. exam time duration
BRS (HONORS)	4	CORE -11		Organic farming	03	30	50	20	2.00 hrs

CORE – 11 : Organic farming - Agriculture Engineering

Objectives :

1. Study construction related to agriculture
2. Study about hydrology.
3. Gain knowledge about water export.

Theory

Unit – 1

- 1.1 Different types of engineering structures,
- 1.2 Matters to be considered in building construction, such as building location, Abhinyas, Abhikalpa etc
- 1.3 Materials used in building construction.
- 1.4 Collector structures. Like god owns, mine barns for cattle, hay god owns, silos etc.

unit – 2 Construction of fences, roads and cow sheds

- 2.1. Farm fence, its types,
- 2.2. Introduction of roads, importance in agriculture. Advantages of good roads
- 2.3. Classification of roads, selection of roads, specification of good roads.
- 2.4. Road planning and execution

Unit – 3 Water Science

- 3.1 Introduction to Water Science, Water Cycle,
- 3.2 Water cycle processes, and evaporation and transpiration
- 3.3 Types of water sources and rainwater harvesting
- 3.4 Knowledge and management of water resources

Unit – 4 Measurement of Rainfall

- 4.1 Concept of Rainwater Harvesting
- 4.2 Construction of Check dam
- 4.3 Farm Ponds
- 4.4 Method of Well Recharge
- 4.5 Benefits of Rainwater Harvesting

Practical :

1. Visit to god owns being constructed for agriculture
2. Making hair for agriculture
3. Getting information about the current status of water resources.

References :

1. Agricultural Engineering—Babubhai Awarani.
2. Agricultural Engineering Part-1,2.-Ambalal Patel,
3. Irrigation Engineering-Dr.RP Rethlia
4. Water Resources Management-Dr.RP Rethlia
5. Natural Resources – Development and-- Babubhai Awarani,

Name of Course	Semester	Core/ ELT/ Foundation	Course Cod	Course Title	Credits	Internal marks	External marks	Prac./ viva marks	Ext. exam time duration
BRS (HONORS)	4	CORE - 12		Agronomy	03	30	50	20	2.00 hrs

CORE - 12 Agronomy – Agriculture Engineering

Objectives :

1. Study construction related to agriculture
2. Study about hydrology.
3. Gain knowledge about water export.

Theory

Unit – 1

- 1.1 Different types of engineering structures,
- 1.2 Matters to be considered in building construction, such as building location, Abhinyas, Abhikalpa etc
- 1.3 Materials used in building construction.
- 1.4 Collector structures. Like god owns, mine barns for cattle, hay godo wns, silos etc.

unit – 2 Construction of fences, roads and cow sheds

- 2.1 Farm fence, its types,
- 2.2. Introduction of roads, importance in agriculture. Advantages of good roads
- 2.3. Classification of roads, selection of roads, specification of good roads.
- 2.4. Road planning and execution

Unit – 3 Water Science

- 3.1 Introduction to Water Science, Water Cycle,
- 3.2 Water cycle processes, and evaporation and transpiration
- 3.3 Types of water sources and rainwater harvesting
- 3.4 Knowledge and management of water resources

Unit – 4 Measurement of Rainfall

- 4.1 Concept of Rainwater Harvesting
- 4.2 Construction of Check dam
- 4.3 Farm Ponds
- 4.4 Method of Well Recharge
- 4.5 Benefits of Rainwater Harvesting

Practical :

1. Visit to god owns being constructed for agriculture
2. Making hair for agriculture
3. Getting information about the current status of water resources.

References :

1. Agricultural Engineering—Babubhai Awarani.
2. Agricultural Engineering Part-1,2.-Ambalal Patel,
3. Irrigation Engineering-Dr.RP Rethlia
4. Water Resources Management-Dr.RP Rethlia
5. Natural Resources – Development and-- Babubhai Awarani,

Name of Course	Semester	Core/ ELT/ Foundation	Course Code	Course Title	Credits	Internal marks	External marks	Prac./ viva marks	Ext. exam time duration
BRS (HONORS)	4	CORE - 12		Animal husbandry	03	30	50	20	2.00 hrs

CORE – 12 Animal husbandry (Animal breeding & genetics)

Objective:

- 1.To know the ideal methods of breeding.
- 2.To understand and utilize the breeding methods in animal improvement.
- 3.To understand the advantages of AI.
- 4.To know methods of collection of semen, evaluation, dilution and storage.
- 5.To know the structure of cooperative dairy sector.

Theory:

Unit-1

- 1.1History of animal breeding
- 1.2Importance of animal husbandry
- 1.3Animal selection and types of selection
- 1.4 Methods of animal selection

Unit-2

- 2.1 Importance of animal husbandry
- 2.2 Methods of animal Husbandry
- 2.3 Methods of animal breeding
- 2.4 benefits of animal breeding

Unit-3

- 3.1History of artificial insemination
- 3.2 Artificial insemination
- 3.3 Pros and cons of artificial insemination
- 3.4 Methods of artificial insemination
- 3.5 Precautions to be taken while doing artificial insemination.

Unit:4

- 4.1Importance of artificial insemination Study of animal reproductive system
- 4.2 Signs of animal coming into heat
- 4.3 Signs of cow becoming pregnant, identification
- 4.4 Embryo implantation technique

Practical :

1. A visit to an ICDP sub centre and to observe the Artificial Insemination of a cow/buffalo
2. A visit to village milk cooperative society & A.I. center (3) Preparation of an artificial vagina and an A.I. gun.
3. Observation of structure of spermatozoa under microscope or at semen collection center.

Reference Books:-

1. PashuVyavastha: Arun D. Dave, University Granth Nirman Board, Ahmedabad.
2. "Godarshan" A monthly Gujarati Magazine, Dept. of A.H., Gujarat State, Gandhinagar.
3. A Text Book of Animal Husbandry: G.C. Banerjee; Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi.
4. A Hand Book of Animal Husbandry: By ICAR, New Delhi.
5. Animal Genetics and Breeding: By BAIF.
6. The Artificial Insemination of Farm Animals: E.J.

Name of Course	Semester	Core/ ELT/ Foundation	Course Cod	Course Title	Credits	Internal marks	External marks	Prac./ viva marks	Ext. exam time duration
BRS (HONORS)	4	CORE - 12		Dairy Technology	03	30	50	20	2.00 hrs

CORE – 12 Dairy technology – dairy development

Objectives:

- 1.A Student knows about dairy
2. students foreigner animals know about species
- 3.students know about selection of animals.

Theory:

Unit: 1 Introduction and Establishment of a Dairy Farm:

- 1.1 Dairy development in India – Dairy Cooperatives (NDRI, NDDB, TCMPF)
- 1.2 Constraints of Present Dairy Farming and Future Scope of Dairy Farmer.
- 1.3 Selection of site for dairy farm, Systems of housing Loose housing system, Conventional Dairy Farm.
- 1.4 Records to be maintained in a dairy farm.

Unit: 2.Livestock Identification and Management:

- 2.1 Breeds of Dairy Cattle and Buffaloes-Identification of Indian cattle and buffalo breeds and Exotic breeds.
- 2.2 Methods of selection of Dairy animals.
- 2.3 Systems of inbreeding and crossbreeding.

Unit: 3 .Feed Management, Dairy Management, Cleaning and Sanitation

- 3.1 Basic Principles of Feed, Important Feed Ingredients, Feed formulation and Feed Mixing.
- 3.2 Operation Flood-Definition of Milk and Nutritive value of milk
- 3.3 ICMR recommendation of nutrients
- 3.4 Per Capita Milk production and availability in India and Andhra Pradesh

Unit: 4

- 4.1 Methods of Collection and Storage of Milk
- 4.2 Labeling and Storage of milk products.
- 4.3 Cleaning and sanitation of dairy farm Safety precautions to prevent accidents in an industry.

Practical:

1. visit to farmers rearing animals
2. a visit to the dairies

References:

1. Dairy Science; Petersen (W.E.) Publisher – Lippincott & Company
2. Principles and practices of Dairy Farm-Jagdish Prasad
3. Text book of Animal Husbandry – G C Benarjee
4. Hand book of Animal Husbandry-ICAR Edition
5. Outlines of Dairy Technology-Sukumar (De) – Oxford University press
6. Indian Dairy Products – Rangappa (K.S.) & Acharya (KT) – Asia Publishing House.

Name of Course	Semester	Core/ ELT/ Foundation	Course Code	Course Title	Credits	Internal marks	External marks	Prac./ viva marks	Ext. exam time duration
BRS (HONORS)	4	CORE - 12		Rural extension	03	30	50	20	2.00 hrs

CORE - 12 Rural extension - communication in extension

Objectives:

- 1.Students understand the importance of conveying communication in extension work.
- 2.Students become aware of the use of symbols in conveying communication
- 3.Students get information about different elements in communication.

Unit:- 1.communication

- 1.1 Importance of effective communication in extension work.
- 1.2 Definition and understanding of messaging.
- 1.3 Characteristics of Effective Communication Messages, Characteristics of Messages.

Unit-2.Factors of Communication

- 2.1 Some Factors Affecting Communication
- 2.2 Use of Symbols in Communication
- 2.3 Points to consider in the process of effective communication
- 2.4 Characteristics of a Communication

Unit : 3. listeners.

- 3.1 Definitions of audience
- 3.2 Types of audience
- 3.3 Things to know about audience
- 3.4 Definition of audience.

Unit :- 4 communication channels

- 4.1Understanding communication
- 4.2channels The reasons for those barriers to communication need to be taken into account to make communication channels effective.
- 4.3 Message handling.
- 4.4 methods of message handling.

Practical:

- 1.To study the methods of message preparation
- 2.State the types of audience
- 3.State the response of Sritao

Reference books:

- 1.Agricultural extension-Ishwarbhai Patel
- 2.Education Basic elements of extension education – Lieut. Piran Dhakan
- 3.Community Development and Agricultural Extension – Babubhai Awarani

Name of Course	Semester	Core/ ELT/ Foundation	Course Code	Course Title	Credits	Internal marks	External marks	Prac./ viva marks	Ext. exam time duration
BRS (HONORS)	4	CORE - 12		Organic farming	03	30	50	20	2.00 hrs

CORE – 12 Organic farming – Agriculture Engineering

Objectives :

1. Study construction related to agriculture
2. Study about hydrology.
3. Gain knowledge about water export.

Theory

Unit – 1

- 1.1 Different types of engineering structures,
- 1.2 Matters to be considered in building construction, such as building location, Abhinyas, Abhikalpa etc
- 1.3 Materials used in building construction.
- 1.4 Collector structures. Like god owns, mine barns for cattle, hay god owns, silos etc.

unit – 2 Construction of fences, roads and cow sheds

- 2.1. Farm fence, its types,
- 2.2. Introduction of roads, importance in agriculture. Advantages of good roads
- 2.3. Classification of roads, selection of roads, specification of good roads.
- 2.4. Road planning and execution

Unit – 3 Water Science

- 3.1 Introduction to Water Science, Water Cycle,
- 3.2 Water cycle processes, and evaporation and transpiration
- 3.3 Types of water sources and rainwater harvesting
- 3.4 Knowledge and management of water resources

Unit – 4 Measurement of Rainfall

- 4.1 Concept of Rainwater Harvesting
- 4.2 Construction of Check dam
- 4.3 Farm Ponds
- 4.4 Method of Well Recharge
- 4.5 Benefits of Rainwater Harvesting

Practical :

- 1.Visit to god owns being constructed for agriculture
- 2.Making hair for agriculture
- 3.Getting information about the current status of water resources.

References :

- 1.Agricultural Engineering—Babubhai Awarani.
- 2.Agricultural Engineering Part-1,2.-Ambalal Patel,
- 3.Irrigation Engineering-Dr.RP Rethlia
- 4.Water Resources Management-Dr.RP Rethlia
5. Natural Resources – Development and-- Babubhai Awarani,

Name of Course	Semester	Core/ ELT/ Foundation	Course Code	Course Title	Credits	Internal marks	External marks	Prac./ viva marks	Ext. exam time duration
BRS (HONORS)	4	ELT - 9		Eminent Indian Educationists	03	30	50	20	2.00 hrs

ELT – 9 : Eminent Indian Educationists

Objectives :

1. વિદ્યાર્થીઓ ભારતના મહત્વના જે ભારતીય શિક્ષણ વિદો છે તેમના જીવન ચરિત્ર અને તેઓએ સમજમાં જે પરિવર્તનો લાવ્યા છે એવા મહાન વ્યક્તિઓ નો પરિચય મેળવે.

Unit – 1

- 1.1 ડો. સર્વપલ્લી રાધાકૃષ્ણ નું જીવન પરિચય
- 1.2 ડો. સર્વપલ્લી રાધાકૃષ્ણ નું શૈક્ષણિક કારકિર્દી
- 1.3 ડો. સર્વપલ્લી રાધાકૃષ્ણ ની સાહિત્યક કૃતિઓ

Unit – 2

- 2.1 સાવિત્રીબાઈ ફૂલે પ્રારંભિક જીવન
- 2.2 સાવિત્રીબાઈ ફૂલોનું શિક્ષણમાં યોગદાન
- 2.3 સાવિત્રીબાઈ ફૂલે દ્વારા કરાયેલા સ્ત્રીઓના અધિકારો માટેના કાર્યો.

Unit – 3

- 3.1 સ્વામી વિવેકાનંદનો સંન્યાસ અને સાધુ જીવન.
- 3.2 તેમના જીવન અને ઉપદેશોનું મહત્વ
- 3.3 સ્વામી વિવેકાનંદ ના શૈક્ષણિક વિચારો.

Unit – 4

- 4.1 ચાણક્ય નું જીવન ચરિત્ર
- 4.2 ચાણક્યની નીતિ
- 4.3 મહાન ચાણક્ય નું શિક્ષણ કાર્ય.

References :

1. Living with a purpose – Dr.S Radhakrishnan
2. Vinita vishesh – Raksha Shukla
3. સ્વામી વિવેકાનંદ ગ્રંથ માળા-સ્વામી વિવેકાનંદ
4. મહાન યાણક્ય- આચાર્ય રાજેશ્વર મિશ્રા

Name of Course	Semester	Core/ELT/ Foundation	Course Code	Course Title	Credits	Internal marks	External marks	Prac./viva marks	Ext. exam time duration
BRS (HONORS)	4	ELT - 9		Rural Entrepreneurship Development	03	30	70		2.30 hrs

ELT - 9 : Rural Entrepreneurship Development

Objectives :

1. To know about the organization which works for the development of student entrepreneurs and to understand the importance of entrepreneurship.

UNIT -1.1 Meaning and Definitions of Entrepreneurship

1.2 Development of Entrepreneurship in India

1.3 Characteristics of Entrepreneurship

1.4 Multifaceted Role of Entrepreneurship in Globalization

UNIT- 2.1 Principles of Entrepreneurship

2.2 Factors Affecting Entrepreneurship

2.3 Employment Through Entrepreneurship

2.4 Creation-Women Entrepreneurship in India

UNIT- 3.1 Measures for Entrepreneurial Development in India.

3.2 Sources of Funding of Enterprises

3.3 Importance of Entrepreneurship

UNIT -4.1 Entrepreneur Development Institute of India (EDI)

4.2 National Institute for Entrepreneurship and Small Business Development (NIESBD)

4.3 Small Industrial Development Bank of India (SIDBI)

4.4 Small Industries Development Organization (SIDO)

Reference book :

1.Fundamentals of Entrepreneurship – 1,2 Anda Prakashan-Ahmedabad

2.Social Entrepreneurship- Alex Nicholas

Name of Course	Semester	Core/ ELT/ Foundation	Course Code	Course Title	Credits	Internal marks	External marks	Prac./ viva marks	Ext. exam time duration
BRS (HONORS)	4	ELT - 9		Great Indian Philosophies	03	30	70		2.30 hrs

ELT – 9 : Great Indian Philosophies

Objectives:

1. Students will get an introduction to the important Indian Philosophers of India, their biographies and the changes they brought about in understanding.

UNIT-1.1 Childhood Life of Rabindranath Tagore

1.2 Literary Life of Rabindranath Tagore

1.3 Achievements of Rabindranath Tagore

1.4 Last Years of Rabindranath Tagore

UNIT- 2.1 Biography of Chanakya

2.2 Educational Work of Chanakya

2.3 Important Sutras of Chanakya

UNIT- 3.1 Early Life of Rajaram Mohan Rai and Education

3.2 Social Reforms of Raja Ram Mohan Raya

3.3 Religious Reforms of Raja Ram Mohan Raya

UNIT- 4.1 Life of Gautama Buddha

4.2 Ashtanga Paths of Gautama Buddha

4.3 Education and Legacy of Gautama Buddha

Reference Books:

1. Living with a purpose – Dr.S Radhakrishnan
2. Vinita vishesh – Raksha Shukla
3. Mahan Chanakya – Acharya Rajeshwar Mishra

Name of Course	Semester	Core/ ELT/ Foundation	Course Code	Course Title	Credits	Internal marks	External marks	Prac./ viva marks	Ext. exam time duration
BRS (HONORS)	4	ELT - 9		Public Health and Hygiene	03	30	70		2.30 hrs

ELT – 9 : Public Health and Hygiene

Objectives:

- 1.To learn the principles of nutrition and dietetics
2. To understand the ill effects of modern lifestyle
- 3.To study the advantages of being hygienic

Unit- 1 Health Education

- 1.1 Definition of Health Education
- 1.2 Objectives of Health Education
- 1.3 Principles of Health Education
- 1.4 Methodology of Health Education

Unit- 2 Health hazards

- 2.1 Definition and concept of health dynamics
- 2.2 Factors affecting health
- 2.3 Health as a means of socio-economic development

Unit-3 Hygiene

- 3.1 Definition and concept of hygiene
- 3.2 Personal hygiene Body odor
- 3.3 Oral hygiene
- 3.4 Social hygiene

Unit-4 Mental Health

- 4.1 Definition and Need for Mental Health by WHO
- 4.2 Healthy Life Years
- 4.3 Childhood Mental Disorders
- 4.4 Importance of Yoga

References:

1. Jatin V. Modi and Renjith S. Chawan. Essentials of Public Health and Sanitation - Part I-IV
2. Murray, C. J. L. and A.D. Lopez. (1996). The Global Burden of Disease. World Health Organization.
3. Park, J.E. and Park, K. Textbook of Community Health for Nurses.
4. Swaminathan S. Principles of Nutrition and Dietetics.