

**VEER NARMAD SOUTH
GUJARAT UNIVERSITY
SURAT**



**FACULTY OF RURAL STUDIES
CBCS - SYLLABUS**

FOR
SEMESTER-III
BACHELOR OF RURAL STUDIES (B.R.S.)

Academic Year: - 2012 -2013

FACULTY OF RURAL STUDIES**U.G. COURSES IN****BACHELOR OF RURAL STUDIES- (BRS)****SEMESTER-III COURSE**

SR. No.	SUBJECT	CREDIT	EVALUATION				COURSE TITLE (Theory + Practical)
			Internal	External	Practical	Total Marks	
1	Foundation-1	3	30	70	50	150	Computer Education (2+1)
2	Foundation-2	3	30	70	--	100	English (3+0)
3	Core-5	3	30	70	50	150	1.Agronomy- (2+1) 2.Ani.Husbandy- (2+1) 3.Horti & Forestry- (2+1) 4.Rural Extension- (2+1) 5. Rural Development & Management (2+1)
4	Core-6	3	30	70	50	150	1.Agronomy- (2+1) 2.Ani.Husbandy- (2+1) 3.Horti & Forestry- (2+1) 4.Rural Extension- (2+1) 5. Rural Development &Management (2+1)
5	Elective-9	3	30	70	---	100	1.Agri.Engineering -I (3+0) 2.Human Growth and Development (3+0) 3.Rural Developmenent in Research Study (3+0)
6	Elective-10	3	30	70	---	100	1.Social Psychology -I (3+0) 2. Disaster Managemaeent (3+0) 3. Fisheries (3+0)
7	Elective-11	3	30	70	---	100	1. Agri.Chemistry -I (3+0) 2. Panchayatiraj -I (3+0) 3.Biotechnology (3+0)
8	Elective-12	3	30	70	---	100	1. Law & Rural Development -I (3+0) 2. Rural Finance & Co-operation -I (3+0) 3.Recent Techniques for Higher Crop Production (3+0)
	Total Marks	24	240	560	150	950	

BACHELOR OF RURAL STUDIES

SEMESTER – III

Foundation-1

Subject: Computer education

(2+1)

Title: - Fundamentals of Computer

Marks-100+50

Objectives:-

Design a course with objectives of

- (i) student aware with fundamental knowledge of computer
- (ii) Student gets knowledge of basic term and importance of computer so that it can be useful in his further study.

Theory:

1. Introduction of computer

- (i) Definitions
- (ii) History
- (iii) Characteristics of computer (A. speed B. accuracy C. memory capacity
D. reliability E. continuous work)
- (iv) Limitation of computer (electric power, user, program command)

2. Basic application of computer

(A. Scientific research B. business application C. entertainment D. communication E. medicine F. engineering G. publication H. banks. I. games J. education K. accounting L. agriculture)

3. Component of Computer System

- (i) Input devices (A. key board B. mouse C. scanner)
- (ii) Central processing unit (CPU) (A. Memory unit B. control unit (CU) C. arithmetical and logic unit (ALU))
- (iii) Output device
(A. monitor (VDU, LCD, LED) B. printer (types of printer),
C. plotter D, speaker)

4. Types of computer

- (i) Analog computers
- (ii) Digital computer (A. micro. B. mini .C. main frame D. super computer)

5. Software

- (i) Application software (word. Excel. Power Point. Tally etc.)
- (ii) System software
- (iii) Computer language (brief)

6. Type of memory

- (i) Internal memory (primary memory)
- (ii) External memory (secondary memory)
(Floppy disk, hard disk, CD, DVD , pen drive, magnetic tap)

7. Virus and Antivirus

- (i) What is Virus?
- (ii) Characteristic of Virus.
- (iii) Types of Virus.
- (iv) How to Enter the Virus.
- (v) How to prevent from the Virus.
- (vi) Antivirus software.

References:-

1. Basic Computer Application - H. B. Bhadka, Dr. N. N. Jani, Dr. G. R. Kulkarni
2. Computer Parichay - Computer Jagat
3. Computer Fundamentals
4. CCC+ -Computer world

BACHELOR OF RURAL STUDIES

SEMESTER – III

Foundation-2

Subject: English

(3)

Marks – 100

Objectives:

1. To strengthen the vocabulary of students.
2. To strengthen the grammar capacity, ability of the students.
3. To introduce the students to English Literature.
4. To generate interest of the students for English Literature.
5. To strengthen the structural ability of the students.

Theory

1. Text:-Let's go home and Other stories-

Ed. –Meenakshi Mukharjee,

Pub: -Orient Long man

Note:-The students will study Stories the First Five Stories

2. Grammar

Correction

Dialogue - Writing

Letters

Punctuation

Reference books:

1. Let's go home and Other stories- Ed. –Meenakshi Mukharjee,
Pub: -Orient Long man
2. High School English Grammar -Pub: -Oxford University

BACHELOR OF RURAL STUDIES

SEMESTER – III

CORE – 5

Subject: Agronomy

(2+1)

Title: - Weed And Weed Management

Marks-100+50

Objectives:-

1. Student Aware with Different Weed.
2. Student Aware with Different Weedicide
3. Knowledge of Weedicide will be useful for producing good quality of agriculture product

Theory: -

1. Introduction

- Definition of weed
- Weed as crop Hussar
- characterizes of weeds

2. Classification of weeds

- Dispersal and persistence of weed

3. Harmful effect of weed

- Beneficial effect of weed
- Crop weed Association
- Critical period of weed competition

4. Methods of weed management

- Preventive method
- Curative methods
- Mechanical method
- Crop husbandry method
- Biological control
- Legally method
- Chemical method
- Laser control
- Herbicidal control

Practical: -

1. Preparation of weed album
2. Collection, Identification and Preservation of weeds
3. Study of methods of weed control
4. Local, English and scientific names of various weeds

References

1. Principal of weed science - V.S.Rao
2. Weed management in important crops of Gujarat state. - Dr. J.C.Patel (G.A.U.Junagadh)

BACHELOR OF RURAL STUDIES

SEMESTER-III

CORE- 5

Subject: - Animal Husbandry

(2+1)

Title: Animal Reproduction and Genetics

Marks-100 +50

Objectives:

- (1) To understand the importance of reproduction in animals.
- (2) To study reproductive organs of animals and to maintain their health.
- (3) To know the estrus signs and signs of pregnancy.
- (4) To know the problems of infertility of animals in India and their solutions.
- (5) To understand the animal improvement through breeding of superior animals.

Theory:

1. Importance of reproduction in animal and stages of reproduction in animal life
2. Female reproductive system – its Organs and functions
3. Male reproductive system- its Organs and functions
4. Estrus cycle and hormones related to reproduction
5. Infertility : causes and remedies
6. Genetics and laws of Inheritance Mendel's experience on
7. Pregnancy Diagnosis: its importance and methods.

Practical :

Note: Each practical carries equal credits and weight.

1. A visit to an ICDP sub centre
2. Observation of signs of estrus in cow/buffalo.
3. Observation of external signs of pregnancy in cow/buffalo.
4. Per-rectal examination of a pregnant cow/buffalo.
5. Study of breed characters of a breeding bull.

References:

1. Pashu Madarog ane Prasuti Vigyan Part: 1,2 and 3
S.B. Kodagali and B.K. Bhavsar, : University Granth Nirman Board, Ahmedabad.
2. Pashu Savardhan: R.K. Shukal, University Granth Nirman Board, Ahmedabad.
3. Pashu Vyavastha: Arun D. Dave, University Granth Nirman Board, Ahmedabad.
4. Vyavaharu Gopalan: Krushnalal Shukal,
University Granth Nirman Board, Ahmedabad.
5. "Godarshan" A monthly Gujarati Magazine, Dept. of A.H., Gujarat State, Gandhinagar.
6. Principals and Practices of Dairy Farm Management: By Jagdish Prashad.
7. A Text Book of Animal Husbandry: G.C. Banerjee;
Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi.
8. A Hand Book of Animal Husbandry: By ICAR, New Delhi.
9. Animal Genetics and Breeding: By BAIF.

BACHELOR OF RURAL STUDIES

SEMESTER – III

CORE – 5

Subject: Horticulture & Forestry

(2+1)

Title: - Commercial Floriculture

Marks-100+50

Objectives:-

Design a course with objectives of

(i) student aware with fundamental principles of floriculture science

(ii) Student gets knowledge of commercial floriculture so useful in progressive farming.

Theory:

1. Definition -flower, floriculture, stock, scion, layering, budding.
2. Importance and future scope of floriculture
3. Flower (in brief)
 - (i) Annual -definition example
 - (ii) Biannual - definition example
4. Plant propagation
 - (i) Definition - plant propagation, sexual propagation, asexual propagation.
 - (ii) Importance of propagation
 - (iii)Types of propagation (a) sexual propagation - merits and demerits
(b) Asexual propagation - merits and demerits,
 - (iv) Different types
 - (I) suckers, part
 - (II) Cutting
 - (III) Layering
 - (IV) Grafting
 - (V) Budding
5. Cultivation practices of major flowers (in brief)

(English name, soil, climate, variety, methods and propagation, fertilizer, after care, production, harvesting, grading)

 - (i) Rose
 - (ii) Marigold
 - (iii) Gladiolus
 - (iv) Lily
 - (v) Galardia
 - (vi) Chrysanthemum
 - (vii) Tuberose
 - (viii) Dahalia
6. Types of pot, potting (in brief)

Practical:

1. Identify different plant & its flower.
2. Visit to a nursery.
3. Plant propagation method, learn by practically

Reference:-

1. Floriculture in India
-Randhawa G.S and Mukhopadhyay A.(1986) pub. Allied publishers private ltd, newdelhi, india.
2. Advances in horticulture vol. 12
-edited by chadhu, K.L and Bhattacharya
-Malhotra publishing house New delhi
3. Beautiful gardens
-Randhawa M.S
-I.C.A.R, New Delhi
4. Creating small gardens
-roy strong
-conran octopus ltd, London.
5. ખેડુત માર્ગદર્શિકા (ભાગ - ૨) બાગાયતી પાકો
સંપાદક, નવસારી કૃષી યુનિવર્સીટી.

BACHELOR OF RURAL STUDIES

SEMESTER – III

CORE – 5

Subject: Rural Extension

(2+1)

Title: - Planning for rural extension

Marks-100+50

Objectives:-

- (i) Understand the various forms of rural extension.
- (ii) Appreciate the application of the extension method in different contexts of rural development.
- (iii) Consider the merits and shortcomings of extension methods in different types of rural extension.

Theory:

1. Introduction
2. meaning and scope
 - (i) objectives of block planning
 - (ii) integrated area approach
 - (iii) comprehensive development plan
 - (iv) location specific plan
 - (v) block planning and the district plan
3. progress in block planning
4. block planning for area development
 - (i) plan for resource development
 - (ii) plan for social services and other facilities
5. block planning for beneficiary oriented Programmes
 - (i) IRDP and block Planning
6. planning process at the block level
 - (i) planning for suitable schemes
 - (ii) assessment of backward and forward linkages
 - (iii) annual block plan
 - (iv) formulation of action
 - (v) selection of schemes and their location

Practical:

1. Formulation of Action Plans
2. Planning for Suitable Schemes
3. Annual Block Plan
4. Integrated Area Approach

Reference:-

- 1 Government of India (1978) Report of the working Group on Block Level Palnning , Planning Commission,New Delhi.
- 2 AVARD (1980),Block Level Planning ,AVARD Publications ,Hyderabad
- 3.Thaha M. (1980)Towards Block Planning Kurukshetra Vol.28,No.15

BACHELOR OF RURAL STUDIES

SEMESTER – III

CORE – 5

Subject: Rural Development & Management

(2+1)

Title: - Planning for Rural Development Marks-100+50

Objectives:-

- (i) Identify the role of planning.
- (ii) Elaborate some of the development planning theories.
- (iii) Explain the meaning of projects and projects cycles.
- (iv) Discuss the concept of resources
- (v) Give the evolution and development of planning experience in India.

Theory:

1 Introduction

2. Need for Planning

- (i) The need for Planning in India

3. Planning & Rural Development : An Overview

4. Theories & Techniques of Planning

- (i) Theories of Regional Development Planning
- (ii) Rural Development Planning Methodology
- (iii) Growth Centre Approach
- (iv) Area Development Approach
- (v) Integrated Rural Development Approach

5. Development Programmes & Planning

- (i) Advantages and Disadvantages of Development Planning

6. Rural Development Planning in India : A Brief Retrospective

- (i) The Early Years of Planning
- (ii) Role of Planning During the Years of Crises
- (iii) Planning & Agriculture Transformation
- (iv) Poverty Alleviation & Indian Planning
- (v) The Task Ahead

7. Grassroots Level Planning (Including Block Level Planning)

Practical:-

1. To visit block level office and prepare the report of block level Planning.
2. Prepare a report about integrated grassroots level Development Programmes Planning.
3. Prepare a report of overall development Planning Programme for a particular Village.

Reference:-

1. Chakravarty , Sukhamoy (1987) , Development Planning ,The Indian Experience ,Oxford
2. Ghatak Subrata (1986),An Introduction to development Economies,Allen and Unwin , London
3. Misra S.N.(1984)Rural Development Planning, Satvahan Publication ,New delhi.

BACHELOR OF RURAL STUDIES

SEMESTER – III

CORE – 6

Subject: Agronomy

(2+1)

Title: - Farm Management

Marks-100+50

Objective:

Design a course with objective of

- (1) Student aware with fundamental principle of farm management.
- (2) Students get Knowledge of farm management, so useful in progressive farming.
- (3) To know Types of farming.
- (4) To understand the Selection and purchasing of soil.

Theory:

1. Farm management.

- 1.1 Definition.
- 1.2 Objectives and farm business.
- 1.3 Limitation of farm management.
- 1.4 Difference between farming business & other business.

2. Types of farming

- 2.1 Definition.
- 2.2 Methods of classification of types of farming.
- 2.3 Classification of types of farming.
- 2.4 Factors determine the types of farming.

3. System of farming.

- 3.1 Familiar farming.
- 3.2 Capitalist farming.
- 3.3 Co-operative farming.
- 3.4 Collective farming.
- 3.5 Government farming.
- 3.6 Tenant farming.
- 3.7 Difference between co-operative and collective farming.

4. Selection and purchasing of soil.

- 4.1 Factors affecting the selection and purchasing of soil.
- 4.2 Methods of soil value determination.

Practical:-

1. Study of Co-operative Farming
2. Study of Government Farming
3. Study of Tenant Farming

Reference:

- (1) Principle and Method of farm Management -Tendon R. K. And Dhondyal
- (2) Establishment and operation of the farm. -Sing and Arjun
- (3) Fundamental of soil science -Millar C.E. and turk L.M.

BACHELOR OF RURAL STUDIES

SEMESTER – III

CORE – 06

Subject: Animal Husbandry

(2+1)

Title: - Dairy Farming

Marks- 100+50

Objectives:

- (1) To know basics of dairy farming.
- (2) To study how to begin a dairy farm and its requirements.
- (3) To understand important points for selection and care of dairy animals.
- (4) To know key aspects of types of farming, milk production, and profitability.
- (5) To study daily routine of a dairy farm.

Theory:

1. Advantages and constraints of dairy farming in India.
2. Starting a Dairy Farm.
3. Important points for selection of dairy animals.
4. Types of Dairy Farming: Mixed farming, specialized farming and Community far
5. Important points for maintaining continuous higher milk production in dairy farming.
6. Important points for profitable dairy farming.
7. Care and management of dairy animals in summer, winter and monsoon.
8. Routine daily operations for dairy farming.

Practical:-

1. To Prepare Report on routine of a dairy farm.
2. To Visit a Community dairy and Prepare a Report

References:

1. Pashu Vyavastha: Arun D. Dave,
University Granth Nirman Board, Ahmedabad.
2. Vyavaharu Gopalan: Krushnalal Shukal,
University Granth Nirman Board, Ahmedabad.
3. "Godarshan" A monthly Gujarati Magazine,
Dept. of A.H.: Gujarat State, Gandhinagar.
4. A Text Book of Animal Husbandry: G.C. Banerjee;
Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi.
5. A Hand book of Animal Science by Amalendu chakraborti
6. Animal Husbandry and Dairy Science by Jagdish Prasad.
7. A Hand Book of Animal Husbandry:
By - ICAR, New Delhi.
8. Principals and Practices of Dairy Farm Management:
By Jagdish Prashad.

BACHELOR OF RURAL STUDIES

SEMESTER – III

CORE – 6

Subject: Horticulture & Forestry

(2+1)

Title: - POMOLOGY

Marks-100+50

Objectives:-

- Design a course with objectives of
- (iii) student aware with fundamental principles of fruit crops production
 - (ii) Student get knowledge of fruit crops fruit crops & its relevant cultivation method so useful in progressive farming.

Theory:

1. Importance of fruit crops in respect to nutritive, economical & land utilization
2. Cultivation practices of fruit crops in Gujarat state
 - (i) Mango
 - (ii) Sapota
 - (iii) Papaya
 - (iv) Coconut
 - (v) ber
 - (vi) Banana
 - (vii) Citrus.
3. Fruit Research station in Gujarat
4. Fertilizer (in brief)
 - (i) Types of fertilizer - organic & inorganic.
 - (ii) Companies - Producing fertilizer
 - (iii) Trade name of different fertilizer and nutrient content
5. "BAHAR" in fruit crops –Meaning
 - (i) Ambebahar
 - (ii) Mrugbahar
 - (iii) Hasta bahar
 - (iv) Method of "Bahar " in fruit crops

Practical:-

1. To Visit a Fruit Research Station and make Report
2. Sketch Cultivation practices of Fruit crops Report

Reference:-

1. Horticulture - A basic awareness
Bandendistel R.F (1982)
Pub.-Reston publishing Co. inc.restonNirginia
2. Principles of Horticulture
Adam, C.R, Bamford K.M and Early M.P
Butter werth Heine mann –London
3. Propagation of horticulture and subtropical horticulture crops
Bose, T.K., Mitra S.K and Sadhu M.K.
NayaPrakash- Calcutta
4. ખેડૂત માર્ગદર્શિકા(ભાગ-૨) બાગાયતી પાકો-સંપાદક, નવસારી કૃષિ યુનિવર્સિટી

BACHELOR OF RURAL STUDIES

SEMESTER – III

CORE – 6

Subject: Rural extension

(2+1)

Marks-100+50

Title: - Planning for rural extension

Objectives:-

- (i) Understand the various forms of rural extension.
- (ii) Appreciate the application of the extension method in different contexts of rural development.
- (iii) Consider the merits and shortcomings of extension methods in different types of rural extension.

Theory:

1. Agricultural extension

- (i) Appropriate Technology and its transfer in Agriculture
- (ii) Human Resources in agriculture extension-training of extension (Personal & Farmers)
- (iii) Woman participation in agriculture extension
- (iv) Management of Agriculture extension Programmes

2. Animal Husbandry extension

- (i) Scope
- (ii) Animal Husbandry extension : Approaches and methods

3. Social forestry extension

- (i) Meaning , concept and scope
- (ii) Patterns of Social forestry extension
- (iii) Constraints and scope for coordination

4. Rural Industry extension

- (i) Scope
- (ii) Approach and methods
- (iii) Selection of methods

5. Rural Health extension

- (i) Health extension Setup at block level
- (ii) Approaches to Health extension
- (iii) Extension Strategies
- (iv) Crucial Determinates

6. Rural Education extension

- (i) Education and Literacy
- (ii) Need for educational extension
- (iii) Methods and media of educational extension
- (iv) Implication for rural development

Practical:-

1. To make a Programmes plan for farmers about the modern and scientific agriculture practices.
2. Prepare a report on government agriculture extension services.
3. To visit Social forestry and to prepares evaluation report.

Reference:-

1. Chakravarty , Sukhamoy (1987) , Development Planning ,The Indian Experience ,Oxford
2. Ghatak Subrata (1986),An Introduction to development Economies,Allen and Unwin ,London
3. Misra S.N.(1984)Rural Development Planning, Satvahan Publication ,New delhi.

BACHELOR OF RURAL STUDIES

SEMESTER – III

CORE – 6

Subject: Rural Development & management

(2+1)

Title: - Management of Rural Development Project

Marks-100+50

Objectives:-

- (i) Understand the various forms of rural extension.
- (ii) Appreciate the application of the extension method in different contexts of rural development.
- (iii) Consider the merits and shortcomings of extension methods in different types of rural extension.

Theory:

- 1. Management of rural development project – and overview**
 - (i) Management concept
 - (ii) Process of Management
 - (iii) Management of rural development projects
- 2. Planning and Management of project Implementation**
 - (i) Activity planning
 - (ii) Network analysis
- 3. Monitoring development project**
 - (i) Meaning
 - (ii) Information system
 - (iii) Monitoring system
- 4. Project Evolution – design and method**
 - (i) concept
 - (ii) dimension
 - (iii) techniques and criteria
- 5. Changes in knowledge, Attitude, Practices (KAP)**
 - (i) KAP – origin and meaning
 - (ii) Relevance
 - (iii) Measurement

Practical:-

1. Plan a Rural Development project and Prepare Report
2. Project Evaluation –Design and Method

Reference:

1. Mishra S.N. 1984 Rural Development planning –design & Method, Satvahan publications New Delhi.
2. Satyanarayana M. and Lalitha Raman 1984 Management operations Research Himalaya Publishing House Bombay
3. Casley D.J. and Lury D.A. 1982 Monitoring and Evaluation of Agriculture and R.D. Projects , World Bank Washington (D.C.)
4. Kuldeep Mathur and Inayatullah ,1980 Monitoring and Evaluation of Rural Development : some asian Experiences asian and Pacific development Centre, Kuala Lumpur Malaysia
5. Posavac E.J. and Carey R.G. 1980 Programme Evaluation : Methods and Case Studies prentice –Hall, Inc New Jersey .

BACHELOR OF RURAL STUDIES

SEMESTER – III

Elective: 09

Subject: Agriculture Engineering -I

(3) Marks- 100

Objective:

Design a course with objective of -

- (1) To know the importance of water.
- (2) To know the primary information of irrigation.
- (3) To know the practical knowledge of irrigation system.
- (4) To know about the irrigation projects.

1. Introduction.

- 1.1 Necessity of irrigation
- 1.2 Merits and demerits
- 1.3 Mode of irrigation (minor and major projects)
- 1.4 Major Projects in India and Gujarat
- 1.5 Classification and suitability of irrigation method (drip and sprinkler irrigation)

2. Water requirement of crops.

- 2.1 Suitability of soil for crop
- 2.2 Water holding capacity of soil
- 2.3 Quality of irrigation water
- 2.4 Soil moisture
- 2.5 Relation between duty delta and base period

3. Ground water

- 3.1 Source of water
- 3.2 Types of well
- 3.3 Recharging of well

4. Reservoir planning

- 4.1 Survey and investigation
- 4.2 Selection of site (above topic)
- 4.3 Methods of estimating reservoir capacity
- 4.4 Zone of storage
- 4.5 Reservoir losses -evaporation, seepage and other

5. Dams

- 5.1 Classification of dams
- 5.2 Gravity of dam
- 5.3 Earthen dams
- 5.4 Spillways

References:

1. Irrigation Engineering -by M.M.Patel and P.B.Vaishnav Pub. Atul Prakashn
2. Farm Engineering - by Babubhai Avarani

BACHELOR OF RURAL STUDIES

SEMESTER – III

Elective: 09

Subject: Human Growth and Development (3)

Marks -100

Objectives:-

- To Understand the Physical & Social Changes of various developmental stages.
- To identify problems and hazards of developmental stages

Unit -1- Developmental Psychology

- Definition, Meaning& Scope. Developmental Psychology& Social work.
- Facts & Stages in development. Tasks in Developmental Stages.

Unit -2- Prenatal Development

- Pregnancy, Child Birth, Problems during delivery, Infancy-Characteristics, Attitude of significant people, Family influence Babyhood- Characteristics, Child rearing practices Family relationship

Unit -3- Early Childhood and Late childhood

- Language Development, Preschool Education, Play & its importance – Influence of School, Social Grouping & Social Behavior, Psychosocial factors of child growth & development

Unit -4- Puberty and Adolescence

- Puberty- Physical changes & its effects, Behavioral changes. Adolescence- Period of Storm & Stress, Identity Crisis, Peer Group Influence, Family Frictions, Social Relationship, & Sexuality.

Unit -5- Early Adulthood, Middle age and Old age

- Early Adulthood- Vocational Adjustment, Role Changers, Marital Relationship, Adjustment to Parenthood.
- Middle age – Adjustments in family, Widowhood, Preparation for Old age, Old age – Physical & Psychological Characteristics Need & Problems.

References Books:

1. Developmental Psychology- A Life Span Approach : Elizabeth Hurlock
2. Principles of Developmental Psychology S Kumar
3. Developmental Psychology Childhood and adolescence: Devid R Shafer.
4. Child Development : Elizabeth Hurlock
5. Complete Book on Pregnancy & Child birth : Dr. Bhahm Prakash
6. Adolescent Behavior & Development: Dusek Jerome B

BACHELOR OF RURAL STUDIES

SEMESTER – III

Elective: 09

Subject: Rural Development in Research Study-1 (3)

Marks 100

Objective:-

- Understand the need for Scientific Approach to human inquiry in place of
- Common sense Approach.
- Conduct simple interviews including use of observation skills.
- Develop ability to use library and documentation for secondary data.
- To understand fundamental aspects pertaining to administration of social organizations.

Unit :- 1 Rural Development Research

Meaning, definition and purpose of research, scope and Its importance

Unit :- 2 Research Processes

Problem formulation, Designing the study, data collection, data processing, analysis and interpretation, writing the research report

Unit :-3 Data collection processes

Sources of Primary and Secondary data,
Techniques interviewing and observation (Structured and under unstructured), data processing.

Unit :-4 Rural Development Administration

Meaning, Definition, Objectives, Principles and Functions

Unit :-5 Types of Organizations and their administration

Legal classification, Procedure of registration, institutional and Non-institutional.

References :-

- Goel S.L.and Jain R.K. : Social Welfare Administration Vol. I&II
- Paul Chowdary D.: Social Work Administration.
- Govt. of India : Encyclopedia of Social work Vol. 1 to 4.
- Wilkinson and Bhandarkar : Methods and Techniques of Social Research.
- Agnihotri. B. : Techniques of Social Research.
- Tata Institute of Social Sciences : Indian Journal of Social Work.
- Lal Das D. K. : Social Work Research.

BACHELOR OF RURAL STUDIES

SEMESTER – III

Elective: 10

Subject: Social Psychology-I (3)

Marks -100

Unit :-1 Social Psychology : An Introduction

- [a] Social psychology: Definition ,scope and method
- [b] Similarities and differences between Social psychology and General Psychology
- [c] Social psychology as an applied science

Unit :-2 Individual and Society

- [a] Drives and motives
- [b] Socialization
- [c] Social adjustment

Unit :-3 Nature of Individual

- [a] Individual as a psychology-social identity
- [b] Social values
- [c] Social attitude
- [d] Attitude formation and change

Unit :-4 Group Psychology

- [a] Concept of group psychology
- [b] Group behavior
- [c] Group leadership
- [d] Mob behavior

Unit :-5 Mass Communication

- [a] Mass communication and public opinion
- [b] Difference between Publicity and propaganda
- [c] Communication in social work

References:

No	Name of books	Author's name	Publisher's name	Year
1	Social psychology	Lamberth Jone	MacMillan pub.	1980
2	Social psychology	Baron Robert A, Byrnedonn	New Delhi, prentice hall of India private Ltd.	2003
3	Mass-communication	Singh Jitendra	New Delhi, Sumit enterprises	2005
4	Mass-communication in India	Kumar Keval J.	Bombay, Jaico publishing house	2002
5	Social psychology people gropes	Raven B.H., Ruben J.Z.	New York, John Wiley & sones	1976
6	Mass-communication	Singh Jitendra	New Delhi, sumit enterprises	2005
7	Mass-communication in India: sociology perspectives	Vilanilam J.V.	New delhi, sage publications	2005
8	Personality & social structure	R.K. & Ftal (ed)	New York, Sociology today, Basic books Inc.	1959
9	Social psychology	Sherip tluzager	New York, Harper & row	1948
10	Social psychology	Sherip tluzager	New York, Harper & row	1954
11	સમાજલક્ષી મનોવિજ્ઞાન	પટેલ હસમુખ	રચના પ્રકાશન અમદાવાદ	
12	સામાજિક મનોવિજ્ઞાન	વ્યાસ કે.બી	સી.જમનાદાસ કુ.અમદાવાદ	1973
13	સમાજલક્ષી મનોવિજ્ઞાન	ડૉ.ચંદ્રકાન્ત પ્રભુભાઈ પટેલ	યુનિવર્સિટી ગ્રંથનિર્માણ બોર્ડ, અમદાવાદ	1993
14	Social Psychology	Akolkar V.V.	Asia Publishing House, Bombay	1962
15	Fundamentals of Social Psychology	Bogardus E. S.	Appleton Century	1923
16	Social Psychology, 2nd Addition	Klinebeg O.	Holt, New York	1965
17	Social Psychology 2nd Addition,	Sarget S.S and Williamson R.C.	Ronald Press, New York.	1968

BACHELOR OF RURAL STUDIES

SEMESTER – III

Elective: 10

Subject: Disaster Management

(3)

Marks -100

Objectives :-

- Understand the factors contributing to disaster.
- Develop and understanding of the process of disaster management.
- Develop and understanding of the Social work's role in the team of disaster management.

Unit -1- Introduction of Disaster

- Meaning and Definition of the term disaster : Its impact on level of development; Vulnerability and disaster properness, phases of disaster.

Unit -2- Classification of Disaster

- Natural – famine, drought, storms, cyclones, earthquakes; Man made, biological Effects , industrial, militancy, insurgency eviction.

Unit -3- Issues concerned

- Policy issues and its implementations impact of disaster; Physical, Priority for economical, spatial and Psychosocial. Special group- Children, Women, elderly and disabled.

Unit -4- Disaster management

- Pre-disaster prevention, preparation, education, preparedness; Actual disaster : Short- term & Long term plan, stress and trauma search, relief.
- Recovery, restoration, resource mobilization; post disaster; rehabilitation, Mitigation of negative effect.

Unit -5- ROLE of GO.,NGOS, & COMMUNITY

- Government Functionaries, Voluntary organization, local groups, community Participation, volunteers and social workers.

✓ References Books:

1. Birnbaum, F., coplon, J., & Scarff, T. 1973 : “Cribis Intervention after a Natural Disaster”, Casework, Vol. 54, No-9,545-551.
2. Blanford It, & Liviue, J. 1973: “Crisis Intervention in a Earthquake”, Social work, Vol.17,No,4,16-19.
3. Haff,A.1978. “People in Crisis”, understanding and helping, California: Addison Worley Publishing company.7
4. Shader,I and Schwartz A.1966. “Management of Disaster”, “Social Work, Vol-11,No- 299-1-4

BACHELOR OF RURAL STUDIES

SEMESTER – III

Elective: 10

વિષય :- મત્સ્યવ્યવસાય

(૩)

Marks 100

હેતુ :- મત્સ્ય વ્યવસાય વિશે જાણકારી મેળવવી પોતાના વિસ્તારમાં સ્વરોજગારી માટે મત્સ્ય ઉછેરને અપનાવીને આર્થિક રીતે સ્વાવલંબી થાય , એ આ વિષયનો મુખ્ય હેતુ છે.

અભ્યાસક્રમ :

૧. માછલીનું મહત્વ, આર્થિક તથા પોષક મૂલ્ય
૨. ગુજરાતના મત્સ્ય સંશોધનો (દરિયાઈ તથા મીઠા પાણીના)
૩. મત્સ્ય પકડાશના સાધનો
૪. મીઠાપાણીમાં મત્સ્ય ઉછેર- મહત્વ અને ઉપયોગિતા
૫. મત્સ્ય ઉછેરના તળાવની પૂર્વ તૈયારી અને વ્યવસ્થાપન
૬. મિશ્ર મત્સ્ય ઉછેર
૭. માછીમારોની સહકારી મંડળીઓ
૮. મત્સ્ય જાળવણી -બરફ,મીઠું તથા સૂર્ય પ્રકાશના ઉપયોગથી

સંદર્ભ ગ્રંથો :-

૧. મત્સ્ય વ્યવસાય વિજ્ઞાન - નિરંજન છાયા- યુનિ. ગ્રંથ નિર્માણ બોર્ડ - અમદાવાદ
૨. મત્સ્ય વ્યવસાય - મ.સ.દૂબળે - યુનિ. ગ્રંથ નિર્માણ બોર્ડ -અમદાવાદ

BACHELOR OF RURAL STUDIES

SEMESTER – III

Elective: 11

Subject: - Agriculture Chemistry -I

(3) Marks- 100

Objective:

Design a course with Objective of

1. To know the Importance of chemistry.
2. To know the Primary Information of Laboratory.
3. To know The Practical Knowledge of Acid – base Titration.

1. Importance of chemistry

- 1.1 branches of chemistry
- 1.2 history of chemistry
- 1.3 uses of chemistry

2. Study of substance, elements, molecules, compounds mixture.

3. Atom, composition of atom and development of ions.

- 3.1 Principles of Dalton for atom.
- 3.2 New concept of law of atom.
- 3.3 Micronism of atom (Avogrdy law)
- 3.4 Planetary model of atom (structure of atom)
- 3.5 Law of octa.
- 3.6 Development of ions (existence of ions)
- 3.7 Valiancy of ions (Mono. , Di. ,Tri. ,tetravalent)
- 3.8 Inactive gases.

4. Language of chemistry.

- 4.1. Symbol of element.
- 4.2. Formula:
 - Method of formula writing.
 - Information which gain from formula.
- 4.3 Chemical equations
 - Method of equation writing.
 - Information which gain from equation.

5. Oxide, Acid, base & salt, Indicator.

6. Molecular weight & equivalent weight.

7. Chemical analysis.

- 7.1. Volumetric analysis
- 7.2. Standard solution
 - Primary standard solution.
 - Secondary standard solution.
- 7.3. Units of standard solution.

Reference Books:

1. Inorganic chemistry.-Dr. H.G.pandya, Dr.B, V, Mehta.
2. Inorganic chemistry.-Dr.M.J, pattani.
3. Practical book of agri.chemistry. -Dr.pandya and M.S.Pate

BACHELOR OF RURAL STUDIES

SEMESTER – III

Elective: 11

વિષય:- પંચાયતીરાજ- ૧

(3) Marks 100

હેતુઓ:- બંધારણમાં દર્શાવેલી સંસદીય લોકશાહી સ્થાનિક સ્તરે કેવી રીતે કામ કરે છે. કેવી રીતે લોકોની રાજકીય ભાગીદારી વધારે છે. કેવી રીતે લોકોનું સામર્થ્ય વધારે છે તે સાથે લોકો નિર્ણય શક્તિ, જરૂરિયાતો અને સત્તા તેમજ નેતાગીરીના ગુણો, આ સ્થાનિક સ્વરાજની સંસ્થા દ્વારા જે કેળવાય છે તેની જાણકારી મેળવે તે આ વિષયનો હેતુ છે.

અભ્યાસક્રમ :-

એકમ :- ૧ પંચાયતીરાજની સંસ્થાઓ પૂર્વભૂમિકા અને ઐતિહાસિક અવલોકન

એકમ :- ૨ ત્રિસ્તરીય માળખું ,મહત્વ, રચના , વિકાસલક્ષી કામગીરીની વહેંચણી

એકમ:- ૩ ગ્રામ પંચાયત

ગ્રામ પંચાયતના કાર્યો, સમિતિઓ, સરપંચના કાર્યો, ઉપસરપંચના કાર્યો, ગ્રામસેવકના કાર્યો અને ફરજો, યોજનાકીય ગ્રામસેવક અને તાલીમ અને મુલાકાત યોજાવના ગ્રામસેવક ,ગ્રામસભા, લોકશાહી વિકેન્દ્રીકરણમાં ગ્રામસભાનું પ્રદાન-મહત્વ

એકમ :- ૪ તાલુકા પંચાયત

તાલુકા પંચાયતનું સમગ્ર માળખું ,તાલુકા પ્રમુખના કાર્યો અને ફરજો સમિતિઓ,સમિતિના કાર્યો તાલુકા વિકાસ અધિકારીની ફરજો અને કાર્યો, સમગ્ર-વિવિધ વિસ્તરણ અધિકારી-કાર્યો-ફરજો

એકમ :-૫ જિલ્લા પંચાયત

જિલ્લા પંચાયત પ્રમુખના કાર્યો અને ફરજો, જિલ્લા પંચાયતની સમિતિઓ તેના કાર્યો, જિલ્લા વિકાસ અધિકારી- કાર્યો અને ફરજો, જિલ્લા પંચાયતના અન્ય અધિકારીઓ તેના કાર્યો અને ફરજો

એકમ :-૬ પંચાયતીરાજમાં રાજ્ય સરકાર અને કેન્દ્ર સરકારની ભૂમિકાનો ખ્યાલ

સંદર્ભ ગ્રંથો :-

૧. ભારતમાં પંચાયતીરાજ - શ્રી બી.સી. શાહ
૨. પંચાયતીરાજ અને વિકાસ - સંપાદક- પ્રવીણ શેઠ
૩. અશોક મહેતા સમિતિ અહેવાલ
૪. બળવંતરાય મહેતા સમિતિ અહેવાલ
૫. રિખવદાસ સમિતિ અહેવાલ

BACHELOR OF RURAL STUDIES

SEMESTER – III

Elective: 11

Subject: Biotechnology

(3) Marks -100

Objective:

- (1) To understand meaning and uses of Biotechnology in agriculture and animal sciences.
- (2) To understand latest techniques like multiple ovulation, embryo transfer, genetic engineering, cloning, test tube baby and transgenic animals and their uses.
- (3) To understand present and future implications of such techniques.
- (4) To know research and discovery, their types and uses.

1. Tissue culture

- 1.1 What is tissue culture?
- 1.2 Methods of tissue culture.
- 1.3 General procedure to raise a plant by cell culture.
- 1.4 Use of tissue culture in agriculture.

2. B.T Seeds: -

- 2.1 What is B.T Seeds?
- 2.2 Use of B.T Seeds in Crop Production
- 2.3 Merits and demerits of B.T Seeds

3. Use of Bio – technology in crop Production

4. Bio – technology in Animal Husbandry

- 4.1. Introduction
- 4.2. Use in Animal Husbandry.

5. Cloning: -

- 5.1. Methods of Cloning
- 5.2. Uses of Cloning
- 5.3. Cloning Method of “Dolly” Sheep Production

6. Multiple ovulation and embryo transfer (MOET)

- 6.1. Multiple ovulation and its Uses
- 6.2. Advantage of M.D.E.T
- 6.3. Transgenic animal and Genetic Engineering

References:-

1. Jamin Vigyan and Vyavastha (guj. Ed.)- Babubhai Avarani.
2. tishil kheti (guj. Ed.) Pub. By Sardar Smruti Kendra,
- Junaghdh Agri. Uni . Junaghdh
3. Veterinary Obstetrics and Gynecology. Kodagali and Bhuj.
4. Bio – technology vishheshnk (Godarshan) Guj .Ed.

BACHELOR OF RURAL STUDIES

SEMESTER – III

(3)

Elective: 12

વિષય :- કાયદો અને ગ્રામ વિકાસ -૧

Marks -100

હેતુ :- પ્રસ્તુત અભ્યાસક્રમનો હેતુ વિદ્યાર્થી ગ્રામીણ વિકાસમાં કાયદાનું મહત્વ સમજે અને ગ્રામ્ય વિસ્તારમાં આર્થિક ,સામાજિક જીવનને સ્પર્શતા કાયદાઓની જાણકારી મેળવે તે છે.

અભ્યાસક્રમ :-

૧. કાયદો: સ્વરૂપ અને ગ્રામ વિકાસના સંદર્ભમાં તેનું કાર્ય ,મહત્વ અને ઉપયોગિતા
૨. ભારતીય બંધારણ: આમુખ, મૂળભુત અધિકારો, રાજ્યના માર્ગદર્શક સિધ્ધાંતો અને ગ્રામ વિકાસના સંદર્ભમાં મહત્વની જોગવાઈઓ.
૩. સામાજિક ન્યાયને લગતા કાયદા : (નાગરિક અધિકાર બંધારણના કાયદા અને કમિશન)
૪. અશ્પૃશ્યતા નિવારણ અંગેના કાયદા,
૫. અત્યાચાર વિરોધી કાયદા , માનવ અધિકારપંચ અને તેની કામગીરીઓ
૬. બાળમજૂરને લગતા કાયદાઓ ,બાળશિક્ષણને લગતી કાયદાકીય જોગવાઈઓ

સંદર્ભ ગ્રંથો :-

- Gujarat Agricultural land ceilings Act -1961
- Water [Prevention & control of Pollution] Act -1974
- Children [Pledging of Labour] Act -1993
- Child Labor [Prohibition Regu] Act -1986
- કાયદો અને પર્યાવરણીય સુરક્ષા _ ડૉ. બી.એમ.શુક્લ _યુનિ. ગ્રંથનિર્માણ બોર્ડ -અમદાવાદ
- ભારતીય બંધારણ - દોલતભાઈ નાયક _ યુનિ. ગ્રંથનિર્માણ બોર્ડ -અમદાવાદ
- ગુજરાત રાજ્ય કાનુની સહાય અને - ગુજરાત હાઈકોર્ટ -અમદાવાદ _સમાજકલ્યાણ વિભાગ-સલાહ બોર્ડ

BACHELOR OF RURAL STUDIES

SEMESTER – III

(3)

Elective: 12

વિષય :- ગ્રામધિરાણ અને સહકાર -૧

Marks -100

હેતુઓ : પ્રસ્તુત અભ્યાસક્રમ દ્વારા વિદ્યાર્થીઓ ગ્રામ્ય અર્થતંત્રના વિકાસ અને વૃદ્ધિ માટે ધિરાણનું મહત્વ સમજી પ્રવર્તમાન સંસ્થાકીય અને બિનસંસ્થાકીય ધિરાણ સ્ત્રોતો અંગેની જાણકારી મેળવે . તેમજ ગ્રામવિકાસની સંસ્થા તરીકે સહકારનું મહત્વ સમજી વિવિધ સહકારી પ્રવૃત્તિ અને તેના સંગઠન, કાર્યક્ષેત્ર, યોગદાન અને મર્યાદાઓની સમજ કેળવે તે છે.

અભ્યાસક્રમ :-

૧. ભારતીય વિત-વ્યવસ્થા, આર્થિક વિકાસ અને વૃદ્ધિ માટે બચત અને ધિરાણનું મહત્વ, નામુ અને તેના કાર્યો ભારતીય અર્થતંત્રમાં વિવિધ સંસ્થાઓનું યોગદાન, સંગઠિત અને અસંગઠિત સ્ત્રોત.
૨. મધ્યસ્થ બેંક અને તેના કાર્યો
૩. ભારતની નાણાકીય નીતિ ,તેની વિશેષતાઓ અને મર્યાદાઓ
૪. કૂળાવો,મંદી, શાખસર્જન અને તેને અસર કરતા રાષ્ટ્રીય અને આંતરરાષ્ટ્રીય પરિબલો
૫. વ્યાપારી બેંકો,તેનો વિકાસ, રાષ્ટ્રીયકરણના હેતુઓ અને તેની અસરો.
૬. સહકારી બેંકો અને કૃષિલક્ષી ધિરાણ, પ્રાદેશિક ગ્રામીણ બેંકો, નાબાર્ડની સ્થાપના, હેતુઓ અને તેની કામગીરી

સંદર્ભગ્રંથો :-

૧. ગ્રામીણ બેંક વ્યવસ્થા - શ્રીમતી પ્રેમીલા એ.જોષીપુરા- યુનિ.ગ્રંથ નિર્માણ -અમદાવાદ -૧૯૮૮
૨. સહકાર ભાગ -૧,૨ - શ્રી.સી.એસ.રાઠોડ - યુનિ. ગ્રંથનિર્માણ બોર્ડ અમદાવાદ -૧૯૮૬
૩. ગુજરાત રાજ્ય સહકારી સંઘ - ગુજરાતની સહકારી પ્રવૃત્તિના ૭૫ વર્ષ
- ૪.ગ્રામવિકાસનું અર્થશાસ્ત્ર - શાસ્ત્રી અને શાહ-સોનેજી અને મહેતા પોપ્પુલર પ્રકાશન-૧૯૭૮
૫. ભારતમાં આયોજન અને સહકારી પ્રવૃત્તિ - વનેસિંહ ખેતસિંહ ગઢવી -યુનિ. ગ્રંથનિર્માણ બોર્ડ
૬. ભારતીય ગ્રામ અર્થતંત્ર વિકાસના પરિપ્રેક્ષ્ય
૭. સહકારી દર્શન - શ્રી જગદીશ ચંદ્ર એમ. ગુલાણી _પ્રમુખ પ્રકાશન,સરકાર ભારતી -૧૯૮૩
અંકુર રોડ, નારણપુર અમદાવાદ -૧૩
8. Rural Banking In India -I.C.-Dhiagra Sultanchand & Sons –NEW DELHI -1987
9. The Indian Economy -I .C.-Dhiagra -Sultanchand & Sons –NEW DHLHI -1995

BACHELOR OF RURAL STUDIES

SEMESTER – III

Elective: 12

Subject: -Recent Techniques for Higher Crop Production

(3) Marks-100

Objectives:

This course is design to get knowledge and skills required for higher agriculture production. It will enable students to understand the role of different inputs and their scientific use for sustainable agricultural productivity.

1. Irrigation Management

- 1.1 Methods of irrigation
- 1.2 Mulching in soil water conservation
- 1.3 Concept of Drip irrigation in higher
- 1.4 Critical stages of irrigation for important crops.

2. Plant protection measures.

- 2.1 Methods of insect control.
- 2.2 Integrated pest management.
- 2.3 Integrated weed management.

3. Integrated nutrient management.

- 3.1 Concept, Meaning and its importance.
- 3.2 Bio- fertilizer.
- 3.3 Organic Manures.
- 3.4 Green Manuring.
- 3.5 Inorganic fertilizer.
- 3.6 Application of manures and fertilizer.

4. Bio-technology.

- 4.1 Scope of Bio – Technology In agriculture.
- 4.2 B.T – Seeds.
- 4.3 Concept of biological insect control.

5. Post harvest technology.

- 5.1 Processing, Preservation and marketing of Agricultural Produce.

Reference:-

1. Principal and Procedures of plant protection. S. B Chattopadhyay.
2. General Entomology – M.S Mani.
3. Jamin vignan and jamin vyavastha. (Guj.ed.) Babubhai avarani.
4. Water resource management. Anil Popat.
5. Principal of agriculture and food production. Archana ruhela.
6. Irrigation technology theory & Practice. Y.P Rao and S.R Bhakar.

