## MASTER OF RURAL STUDIES

THE FOLLOWING ARE THE SUBJECTS PRESCRIBED FOR

### SEMESTER-I

<table>
<thead>
<tr>
<th>Sr No.</th>
<th>Subject</th>
<th>credit</th>
<th>Evaluation</th>
<th>Title of the Subject</th>
<th>Course No.</th>
</tr>
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<td>Internal max/min</td>
<td>External max/min</td>
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<td>(30/12)</td>
<td>(70/28)</td>
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<tr>
<td>1</td>
<td>Foundation-1</td>
<td>2+0</td>
<td>30</td>
<td>70</td>
<td>Rural Technology</td>
</tr>
<tr>
<td>2</td>
<td>Core-1</td>
<td>2+0</td>
<td>30</td>
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<td>1. Agronomy-1</td>
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<td>2. Horticulture &amp; Forestry -I</td>
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<td>3. Animal Husbandry-1</td>
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<td>4. Rural Extension-1</td>
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<td>5. Rural Economics-1</td>
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<td>3</td>
<td>Elective-1</td>
<td>2+0</td>
<td>30</td>
<td>70</td>
<td>1. Water Resource Management</td>
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<td>2. Recent Techniques in Agriculture</td>
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<td>3. Philosophy and Contents of Extension</td>
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<td>4. Production Technology in Pomology</td>
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<td>4</td>
<td>Elective-2</td>
<td>2+0</td>
<td>30</td>
<td>70</td>
<td>1. Concept of social reconstruction</td>
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<td>2. Rural development in India</td>
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<td>3. Floriculture</td>
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<tr>
<td>5</td>
<td>Elective-3</td>
<td>2+0</td>
<td>30</td>
<td>70</td>
<td>1. Natural Resource management</td>
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<td>2. Sociology of Tribal Society</td>
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<td>3. Reproduction in Farm Animals</td>
</tr>
</tbody>
</table>
# MASTER OF RURAL STUDIES

**SEMESTER – I**

**Subject: - Rural Technology (M.FND-111)**

**Objectives:-**

1. Student aware with knowledge of resources in rural area
2. Student aware with voluntary organization so can use in his area development program

## Course:

<table>
<thead>
<tr>
<th>Unit</th>
<th>Topic</th>
<th>Marks</th>
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</thead>
<tbody>
<tr>
<td><strong>Unit 1</strong></td>
<td>Energy resources</td>
<td>25%</td>
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<tr>
<td></td>
<td>1.1 Energy Crisis</td>
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<td>1.2 Energy development and utilization.</td>
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<td>1.3 Energy conservation need of alternative energy sources.</td>
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<td>1.4 Classification of Rural Energy.</td>
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<td></td>
<td>1.5 Conventional and non-conventional sources of energy.</td>
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<td></td>
<td>1.6 Non conventional: Bio-Gas energy, Solar Energy, Wind Energy, Waves and tides, their development and utilization.</td>
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<td>1.7 Energy saving in kitchen.</td>
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<tr>
<td><strong>Unit 2</strong></td>
<td>Voluntary organization in rural area</td>
<td>20%</td>
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<tr>
<td></td>
<td>2.1 Importance of Voluntary Organization.</td>
<td></td>
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<td>2.2 Types of Voluntary Organization.</td>
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<td>2.3 Role of Voluntary Organization.</td>
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<tr>
<td><strong>Unit 3</strong></td>
<td>Green House technology for flower Crop</td>
<td>20%</td>
</tr>
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<td></td>
<td>(i) Rose (ii) Carnation (iii) Lilies (vi) Chrysanthemum (v) Gerbera</td>
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<tr>
<td><strong>Unit 4</strong></td>
<td>Use of Plastic in Horticultural Crop</td>
<td>10%</td>
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<td>4.1 Plastic Bag in nursery.</td>
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<td>4.2 Mulching</td>
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<td>4.3 Pipe Line</td>
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<td>4.5 Drip and Sprinkle irrigation.</td>
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<td>4.6 Packing and Storage in fruit and flower.</td>
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<td></td>
<td>4.7 Plastic House / Green House.</td>
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<tr>
<td><strong>Unit 5</strong></td>
<td>Nursery in Rural Area</td>
<td>15%</td>
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<td></td>
<td>5.1 Fruit</td>
<td></td>
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<td>5.2 Flower Selection of place, land preparation, aftercare, Marketing</td>
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<tr>
<td><strong>Unit 6</strong></td>
<td>Selected Income-generation technologies in rural area:</td>
<td>10%</td>
</tr>
</tbody>
</table>

## References

1. Water resources management – Anil Popat
2. Falvisheshank (Gujarati)- krushi govidya, AAU, Anand
3. Watershed management – V. Dhruv & G. Shastri
MASTER OF RURAL STUDIES

SEMESTER-I

Subject: Agronomy-1 (M.Agro-101)

Title: Agriculture Experimental Designs

Marks: 100

(2+0)

Objectives:

1. Student should know about the selection of site for experiments and uniformity trials
2. To aware the students about the principles of experimental design
3. Student should be aware about the simple and complex experimental designs ,its analysis of variance and to draw out the result of experimentation
4. Student should know the care to be taken during experimentation.

Course

1. Some important Definition used in experimental designs 10%
2. Principles of Experiment Designs 20%
3. Simple Design of Experiments. 40%
   3.1 ABAB Method
   3.2 CRD (Completely Randomized Design).
   3.3 RBD (Randomized Block Design)
   3.4 LSD (Latin Square Design)
4. Complete Design of Experiments 15%
   4.1 SPD (Split Plot Design)
   4.2 SPT (Strip Plot Technique)
5. Care to be taken during experimentation 15%

References

1. Kshetra Prayog N’s Karya Paddhati (Guj. Education)  
   - Dr. Ambalal Sendhabhai Patel
   - Shri Mahesh Ranikbhai Vaishnav
2. Agricultural Statistics in India - P.C. Bansil
3. Field Experimental Design - Chandel R.S.
MASTER OF RURAL STUDIES

SEMESTER-I  CORE-1

Subject: Animal Husbandry-1(M.AH-101)  Marks: 100
Title: Animal Genetics & Breeding  (2+0)

Objectives:

(1) To understand the underlying truth of heritability and its application.
(2) To know the importance of breeding for improvement of animals.
(3) To get familiar with selection methods and to apply in practice.
(4) To understand the importance of reproduction in profitability of animal husbandry.
(5) To know various reproductive problem and how to overcome form them.
(6) To know how one could help to villagers for improvement of their animals.

1. Laws of Heritability: Mendel’s experiment on peas and laws.  10
2. Selection: The tool of a breeder  15
3. Variation: Sources, effects and Implications.  10
4. Choosing traits for selection; affecting factors, degree of relationship  15
5. Breeding Methods: Types of breeding  15
6. Selection and its types. Selection criteria of Breeding dull at puberty and at adulthood.  20
7. Fertility affecting breeding efficiency and measures  15
To promote breeding efficiency

Reference Books:
1. Pashumadarog and Prasutivigyan Part - 1, 2, 3 - S. B. Kodagali, B. K. Bhavsar
2. Pashu Samvardhan - R. K. Shukal
4. Animal Genetics and Breeding. - BAIF
MASTER OF RURAL STUDIES

SEMESTER-I

Subject: Horticulture & Forestry-1 (M.Hort-101)  
Title: Value Addition in Horticulture Crop (2+0)  
Marks: 100

Objectives:-

1. Student gets knowledge about value addition in fruits, flowers and vegetable so able to get more income in his own farm product.

2. Able to create self employment through canning industries.

Course:

Unit: - 1 Introduction to Value Addition  
1.1 Definition – Value addition in fruits  
1.2 Importance of value addition  
1.3 Deferent step to Increase product value.  
1.4 Factor affecting in value addition.

Unit: - 2 Ripening symptoms and harvesting method of fruit crops.  
Unit: - 3 Post harvest handling procedure  
3.1 Cleaning  
3.2 Sorting  
3.3 Grading  
3.4 Treatments  
3.5 Packing  
3.6 Storage  
3.7 Transportation

Unit: - 4 Preservation  
4.1 Importance of Preservation  
4.2 factors responsible for deterioration

Unit: - 5 Method of fruit Preservation  
5.1 salt  
5.2 Sugar  
5.3 Dehydration  
5.4 Chemical  
5.5 Canning  
5.6 Acidic acid  
5.7 Freezing

Unit: - 6 Fruit Product  
6.1 Canning of Mango juice
6.2 Apple jam
6.3 Mango papad
6.4 Banana wafers
6.5 Mango powder (Aam Churn)
6.6 Chikoo Jam
6.7 Pineapple Squash
6.8 Guava pulp
6.7 Guava jelly

<table>
<thead>
<tr>
<th>Unit: - 7</th>
<th>Value addition in vegetables</th>
<th>10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit: - 8</td>
<td>Value addition in flowers</td>
<td>10%</td>
</tr>
<tr>
<td>Unit: - 9</td>
<td>Export of Fruits</td>
<td>10%</td>
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<tr>
<td>9.1</td>
<td>Care taken for export quality</td>
<td></td>
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<tr>
<td>9.2</td>
<td>Important fruits and methods for export.</td>
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<tr>
<td>9.3</td>
<td>Mango</td>
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<tr>
<td>9.4</td>
<td>Chikoo</td>
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<tr>
<td>9.5</td>
<td>Banana</td>
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<tr>
<td>Unit: - 10</td>
<td>Export of Vegetables</td>
<td>10%</td>
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<tr>
<td>Unit: - 11</td>
<td>Motivation policy of State &amp; National Horticulture Board.</td>
<td>5%</td>
</tr>
</tbody>
</table>

REFERENCES:

1. Fal visheshank (Gujarati)- krushi govidya, AAU, Anand
2. Shakbhaji visheshank (Gujarati)- krushi govidya, AAU, Anand
3. Ful visheshank (Gujarati)- krushi govidya, AAU, Anand
MASTER OF RURAL STUDIES

SEMESTER-I 

Subject: Rural Economics. (M.Econ-101) 

Title: Agriculture Economics 

Marks: 100

(2+0)

Objectives:

1. To become familiar to the meaning and nature of Agricultural Economics
2. To Know the Relationship between Agricultural Product and Price
3. To Become aware About the Problems of Agri. Productivity and to think about the remedial measures of the Problems
4. To Know about the Indian Agricultural Policy
5. To Know about the influence of “WTO” on Indian Agriculture

Course:

1. Nature and Scope of Agricultural Economics. Role of Agriculture in Economic Development. Interrelation between Agriculture and Industry 15%
2. Concept of Production function, law of diminishing return and its importance in decision making, cobweb theorem-prices and output relationship. Long-term trends in Production and productivity- cause of low productivity. 35%
3. Agricultural marketing: defects in agriculture marketing, corrective measures, regulated and cooperative marketing. Agriculture price policy- objectives, instruments, evaluations. 35%
4. The place of Agriculture in New Economic Policy. WTO and Indian Agriculture sector 15%

Reference Book:

1. An Introduction to Agricultural Economics - Bilgrami SAR
2. Indian Agricultural Economics - Rudra A.
3. Agricultural Problems in India - Sadhu & Singh
4. Trade liberalization and Indian Agriculture - Gutali A.&Kelly
6. The Economic Structure of Backward Agriculture - Bhaduri
7. India Agricultural Development since independence - Dawlwala M.L.
9. भारतीय औद्योगिक विकास द्वारा पवयते - वि. अ.श्रीविस्तरा
10. Trade liberalization and Indian Agriculture. - Gulati A. & T. Kelly
11. WTO & Asian Union. - Raj Kumar Sen
   John Felix Raj
12. WTO and Indian Agriculture 1.2.3 - Dr. Rais Ahmed.
MASTER OF RURAL STUDIES

SEMESTER-I

Subject: Rural Extension -1(M.Ext-101)
Title: History of Rural Development

Marks: 100

Objective

1. To Prepare the Studies the help the people personally or collective.

2. To Aware the students for project and schemes of government and give perforation to rural people.

3. To aware the students for all aspect of rural development.

4. To prepare a volunteer for NGO.

Course:-

Unit:-1. Concept of rural development after independence, work done for rural development,
History and objective of rural development

Unit: - 2. Agency of Rural Development

2.1 DRDA (District industrial center)

2.2 Co-Operative banks

2.3 Trysem

2.4 Tribal Schem/Project.

Unit: - 3. Assistance for individual and community development

3.1 Rules to Loans and subsidy

3.2 Rules for small industries.

3.3 Schemes for agriculture & Animal Husbandry.

Unit 4:- Concept of Non- Government organizations its functions and field. 20%

Reference:-

1. Bharat ni samajik santhano by Shah joshi.

2. Krishi arthshatra - Sidant and vyavhar

3. bharat garibi by Rohit Shukla

4. Gram vikas by Babubhai avarani
5. Bharat ma gramin vikas.

MASTER OF RURAL STUDIES
SEMESTER – I

Subject: - Water Resource Management (M.ELT-111) Marks-100

Objective:-
1. Student should know theoretically as well as practically about water conservation.
2. Student should be aware about works done in Water Resource Management.
3. To know about the Water saving irrigation method.

Course:

Unit: 1 Introduction to water Resource Management. 25%
1.1 Best development of Resource Management proper use and management of water resource.
1.2 Aspect of Water Resource Management.
1.3 Role of various agencies in water resource management.

Unit: 2 Ground Water 25%
2.1 Introduction.
2.2 Ground water importance and Present situation.
2.3 Use of Ground Water.
2.4 Limitation of usages of Ground Water.
2.5 Steps to Increase Ground Water.

Unit: 3 Watershed Management 25%
3.1 Introduction
3.2 Points kept in mind while selecting watershed site.
3.3 Type of development works under water shade treatment.
3.4 Terms related with watershed.
- Self help group.
- Use group.
- Homogeneous group.
- Watershed.
3.5 Characteristics of watershed.
3.6 People's participation in watershed management.
3.7 Necessity of rain water harvesting.
3.8 Methods of rain water harvesting.
1. Check dam.
2. Percolation Tank.
5. Plantation tree.
6. Well recharge.

Unit: 4 Advance Water Application Method 25%
4.1 Function of irrigation water.
4.2 Sprinkler irrigation system
   Classification of irrigation system
4.3 Drip irrigation system.
   - Part of Drip irrigation system.
   - Advantages of drip irrigation system
   - Disadvantages of drip irrigation system

4.4 Visit to a farm and practical.
   - Study of drip irrigation

4.5 Collect the information related to motivation of drip irrigation system about government policy.

References:
1. Water resources management (Gujarati Edition)
   - Anil K. Popat
   - R.D. Misra and M. Ahmed
MASTER OF RURAL STUDIES

SEMESTER – I

Subject: - Advance technology in agriculture (M.ELT-112) Marks-100

Objectives: -
(i) Student gets theoretical as well as practical knowledge of vegetable cultivation practices so useful in progressive farming
(ii) Create self-employment source.

Course:

Unit:-1. Plant growth regulator
   (i) definition- Hormones, plant growth regulator.
   (ii) Importance of plant growth regulator.
   (iii) Types of plant growth regulator - Auxin, gibberilines, cytokinin, inhibitors, ethelen
   (iv) Use of plant growth regulator in fruits and vegetables (in brief)

Unit:-2. Green house
   (i) Definition
   (ii) Importance of green house
   (iii) Types of green house - simple, medium, high tech green house
   (iv) Government scheme for appreciation of green house

Unit:-3. Bio fertilizer
   (i) Definition
   (ii) Importance of bio fertilizer
   (iii) Cares taken at the use of bio fertilizer
   (iv) Types of culture - Rhizobium - Azetobacter, -Phosphorus, solubirising (P.S.I) - Azospilium

Unit:-4. Water Conservation
   (i) Importance
   (ii) Types of water conservation
      (a) Surface water conservation
         (i) Natural
         (ii) khet talavadi
      (b) Underground water conservation
         (i) Well recharge
         (ii) Bore recharge
         (iii) Check dam

Unit:-5. Mushroom cultivation
   (i) Merits of mushroom cultivation
   (ii) Limitation of mushroom cultivation
   (iii) Types of mushroom - Button mushroom – paddy straw mushroom - apister mushroom.

Unit:-6. Hydroponics
   (i) Definition
   (ii) Merits of hydroponics
   (iii) Planning of hydroponics farm-place-aggregate-media- nutritional solution
   (iv) Types of hydroponic culture
Unit: 7. Plant biotechnology with specific reference to tissue culture (15%)
(i) Definition
(ii) Importance
(iii) Method of tissue culture
(a) Micro propagation
(b) Anther culture
(c) Embryo culture
(d) Tissue culture
(e) Proto plats fusion
(iv) Names of fruits and flowers in which tissue culture method applied

Unit: 8. Biological control of pest in horticultural crop (15%)
(i) Predator insect
(a) Ladybird beetle
(b) Crysopha
(c) Sir fid fly
(d) Minted
(e) Dragon fly
(f) Tiger beetle
(ii) Parasites
(a) Egg parasite
(b) Larva parasite
(c) Papal parasite
(iii) disease-producing virus (N.P.V)

Reference:-
1. Krushi pragati - Dr.Brarhai patel

2. Pratishil kheti - S.S.K. JND Agri uni
MASTER OF RURAL STUDIES

SEMESTER – I  Elective-1

Subject: - Philosophy and Contents of Extension (M.ELT-113) Marks-100

Objective:

1. Students Understand / Know the role of N.G.O in Extension.
2. Students become aware about different concept of Indian rural development
3. Students become aware about extension work after independence
4. Students become aware about extension work before independence

Course:

Unit: 1 Extension is education. 30%
- Characteristics of extension education
- Scope of extension education
- Importance of extension education

Unit: 2 Principles of extension education 30%
- History of extension Education
- Step-in. Extension Education
- Process, Objectives, of Extension education

Unit: 3 Extension Educations in Various Countries of the word Study of Extension Education in some of the Democratic countries and communist 40%
- Countries E.g. – Israel, Japan, America, important Points, Useful for India.

Reference Book

1. Extension Education –
   - Babubhai Avarani.
2. विकास शिक्षण मुखः तत्त्वो
   - प्र. दीर्घ ॥मृि॥
MASTcer OF RURAL STUDIES

SEMMETER – I Elective-1
Subject: - Prod. Technology in Pomology (M.ELT-114) Marks-100

Objectives:-

Design a course with objectives of

(i) Student gets theoretical as well as practical knowledge of Fruit cultivation practices so useful in progressive farming

(ii) Create self - employment source.

Course

Unit – 1:- Pomology 10 %

1.1 Definition
1.2 Importance
1.3 salient Future

Unit - 2:- Recommended Cultivation practices of Major fruit crops of Gujarat State 50%

2.1 Mango 2.2 Sapota 2.3 Papaya
2.4 Coconut 2.5 ber 2.6 pomegranate
2.7 bananas 2.8 Citrus 2.9 amala
2.10 Date Palm 2.11 Custand apple 2.12 Guava

Unit -3:- Training and pruning in fruit crops. 10 %

Unit -4:- "Bahar" Treatment in Fruit Crops. 10 %

Unit - 5:- Weed Management in fruit crops. 10%

Unit - 6:- Fruit Growers motivation policy of Gujarat state & Indian Government. 10 %

Reference Books:-

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
MASTER OF RURAL STUDIES

SEMESTER – I

Elective-2

Subject: - Concept of Social Reconstruction (M.ELT-121)  Marks-100

Objective:-
1. To Familiarize with Knowledge of & Social Reconstruction.
2. To get Information regarding religion, Philosophy and Science.
3. To know the contribution of Abraham Lankan, Karl Marks, etc in social reconstruction.

Course:-

Unit: - 1 Meaning and importance of social reconstruction 25%
1.1 Understanding of social reconstruction and characteristics of society.

Unit: - 2 Factor associated with social reconstruction 25%
2.1 Religions
2.2 Philosophy and "shad darshan"
2.3 Science and its characteristics

Unit: - 2 Introduction, Reasons and Effect of French and American Revolution 25%
3.1 "The Revolution" as a process of social reconstruction

Unit: - 4 Social revolution an authority, its metlness and its evolution. 25%
4.1 Martine Luther king
4.2 John Kelvin
4.3 Abraham Lankan
4.4 Karl Marks.

Reference:-
1. Vishva no itihas by Dr. Dharaniya
2. Aapano Dharm by Dr. A.B Dhruv
3. Manavino vidyaman dharm by mansuri . Kothari & Vora
4. Jagat na vidyaman Dharman by Dr. J.A Yagnik
5. Dharmanu mu milan by Dr. Radha Krishana
6. Bhartiya tatvagyan by C.V Raval
7. Samuli Kranti by Kishorlal Mashruvala
MASTER OF RURAL STUDIES

SEMESTER – I  Elective-2

Subject: - Rural Development in India (M.ELT-122)  Marks-100

Course:

UNIT-I
- Antiquity of the term Gramin (rural)
- The meaning the term development
- Rural life in India through the ages – Ancient India, Medieval India and Modern India.
- Rural life in post independent India.

UNIT-II
- The ‘why’ of Rural Development in India.
- The dimensions and approaches of Rural Development.
- Indian Government Rural Development Administration and Approach.
- Plans and Schemes of Rural Development in India.

UNIT-III
- Characteristics of Indian Rural Life.
- Agricultural Scenario in Independent India.
- National Agriculture Policy
- Problems of Indian Agriculture.

UNIT-IV
- Studies in Contemporary Models of Rural Development- Ralegaon experience, Tarun Bharat Gangh, SEWA, Chipko movement, Growth Centres, Krishi Vigyan Kendra, Gramodaya Model
- Christian Missionary experiments in tribal communities.

UNIT-V
- Rural Reconstruction – ‘Gramin Punarachana’ – Its conceptual frame-work
- Rural Reconstruction in India

References:
1. An Introduction to Agricultural Economics - Bilsrami SAR
2. Agricultural Problems in India - Sadhu and Sing
3. Rural Development - Sundharam I.S.
4. Indian Agricultural Economics - Rudra A
MASTER OF RURAL STUDIES

SEMMESTER – I

Subject: - Floriculture (M.ELT-123)  

Marks-100

Objectives:-

(i) Student gets theoretical as well as practical knowledge of Flower cultivation practices so useful in progressive farming

(ii) Create self - employment source.

Course

Unit - 1 Floriculture 20%

1.1 Definition
1.2 Importance
1.3 Salient future

Unit - 2 Introductory information about Flowers 20%

2.1 Annual (Seasonal)
2.2 Biannual

Unit - 3:- Cultivation practices of major flowers of Gujarat state 20%

3.1 Rose
3.2 Marigold
3.3 Chrysanthemum
3.4 Aster and others.

Unit - 4:- Greenhouse technology for flower crops. 20%

Unit - 5:- Government scheme to motivate flower cultivation & production 20%

Reference:-

1. Floriculture in 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
MASTER OF RURAL STUDIES

SEMESTER – I

Subject: - Natural Resources Management (M.ELT-131)

Elective-3

Marks-100

Objective:

1. Students identify the environment and natural resources.
2. Students will become aware about different kinds of pollution.
3. Students understand the importance of energy.
4. Students become aware about the global problem of the environment laws.

Course:

Unit: - 1 Environment and natural resources.

1.1 Definition of environment, Environment on the earth.
1.2 Definition cycles which keep the environment in balance.
1.3 Manmade and natural environment.

Unit: - 2 Pollution

2.1 Definition of pollution, Types, Cause and effects.
2.2 effect of pollution on human life.

Unit: - 3 Major Elements of natural resources (water, soil, forest, air)

3.1 Effect of polluted elements on global environment.
3.2 effect of natural disaster on public life.

Unit: - 4 Energy

4.1 Definition of energy, types.
4.2 Merits and demerits of renewable sources of energy.

Unit: - 5 Natural resources

5.1 Place and importance of natural resources of India.
5.2 Care of natural resources
5.3 "Eco-Friendly" Approach for conservation and protection of natural resources
5.4 Nation sanctuaries and natural parks.
5.5 Environmental laws.
5.5.1 The air act 1981
5.5.2 The Water act 1974

5.5.3 The Environment (protection act) 1986

Reference

1. Paryavaran sath. - Ramesh Savaliya
2. Environment and seismic engineering - Dr.M.B Gohil
3. Paryavaran shastra - Bipinbhai joshi
4. Paryavaran - Dr.M.B.Gohil
5. Chalo jagiyre paryavaran bachaviye - Dr.Rameshchandra J. Bhayani.
6. Kudarat Sampati vikat andvyavasthapan - Babubhai avarani
MASTER OF RURAL STUDIES

SEMESTER – I

Elective-3

Subject: - Sociology of Tribal Society (M.ELT-132)

Marks-100

Objective:-

1. To study the sociology of tribal society
2. To Study the Economics classification of tribal
3. To know the problems of tribal society
4. To know about Tribal life style of Tribal Society.

Course:-

Unit: - 1 Sociology of Tribal Society. 20%

1.1 Meaning, Concept, usefulness of Tribal Society.
1.2 Definition and character of schedule tribes.

Unit: - 2 Economic Classification of S.T 20%

Unit: - 3 Sociological and cultural outlines of S.T

3.1 Forms of marriage
3.2 Status of women in tribal society
3.3 Religions beliefs and returns.
3.4 Dimensions of cultural.

Unit: - 4 Problems of tribes 20%

Poverty, dept, illiteracy and agriculture problems lifestyle of various

Unit: - 5 Introduction to Tribes in Gujarat 20%

-Bhil, Dubala, Sidi,

Reference:-

1. Adivasi Samajnu Samajshashtra- A G Shah and J K Dave
2. Gujaratna Adivasio_ Shah Vimal
3. Adivasiona Prashno_ Shah Vimal
4. Bhartiya Adivasi Samaj- A G Shah and J K Dave
5. Gujaratna Dubala_ P G Shah
MASTER OF RURAL STUDIES

SEMESTER – I  Elective-3

Subject: - Reproduction in Farm Animals (M.ELT-133)  Marks-100

Objectives:

(1) To understand Fertilization and Implantation
(2) To understand Fetal Development and Parturition to understand the basic mechanism of Reproduction.
(3) To understand How the Reproduction is involved in animal production.
(4) To understand estrus cycle.
(5) To know udder and milk secretion.

Course:

Unit-1 Reproductive System  30%
(1) Male Reproductive System: Organs
(2) Female Reproductive System: Organs
(3) Hormones related to Reproduction.

Unit-2 Mechanism of Female Reproduction  50%
(1) Gametogenesis: Oogenesis, Spermatogenesis
(2) Estrus Cycle and Ovulation

Unit-3 Mammary Gland and Milk Secretion  20%
(1) Structure and Functioning of udder.
(2) Milk Secretion: Factors and Mechanism

Reference Books:

1. Pashumadarog and Prasutivigyan Part - 1, 2, 3
   - S. B. Kodagali, B. K. Bhavsar
2. Pashu Samvardhan - R. K. Shukal
4. Animal Genetics and Breeding - BAIF