SAURASHTRA UNIVERSITY
RAJKOT

FACULTY OF RURAL STUDIES
(CBCS)

ORDINANCES AND RULES

&

SYLLABUS FOR SEMESTER I & II

FOR

MASTER OF RURAL STUDIES

(Amended rules as on June-2019)

Saurashtra University
University Road, Rajkot - 360005
MASTER OF RURAL STUDIES

VISION :-

The rural faculty of Saurashtra University receives inspiration for rural development in consonance with the vision of Mahatma Gandhi. The rural faculty is mandated to evolve, promote and impart higher education so as to take up emerging challenges for transformation of rural areas. It undertakes academic, research, extension and training programs for the empowerment of the people with a view to ensuring free flow of knowledge, techniques and technologies as a two-way process for betterment of rural life.

MISSION :-

(1) To encourage rural graduates to take challenges for transformation of rural areas.
(2) To build up villages by providing not only education but acquisition of knowledge, understanding and molding of individual through which economic social and cultural development of nation can be achieved.
(3) To unit educational activities with rural problems through training (placement) and project work.
(4) To provide youth leadership in relation to rural society with particular focus on extension, agriculture, animal husbandry, horticulture and rural cooperative services.
(5) To promote research in the area of alternative sources of energy, qualitative improvement in rural product, inventing new tools and equipments for agriculture and dairy farming, eradication of rural unemployment, conducting experiments in traditional knowledge and science, preservation and propagation of the regional folk art forms and inculcation of social value.

Ordinances and Regulations :-

O.M.R.S. – 1 :

The Candidate for the degree of M.R.S. must have passed any of the following degrees with minimum 48% marks or equivalent grade point

1. B.R.S. / B. A. (Rural Studies) from this or any other university recognized by the University.
2. B.S.W. from the recognized University.
3. Graduates from Govt. approved Gram Vidyapeeth.
5. B.A. (Economics / Sociology)
6. B. Com.
7. B. Sc. (Agriculture)
8. B. Sc. (Horticulture)
9. B. V. Sc. & A. H.
10. Other Graduates equivalent to B.R.S.

**Conditions:**

1. A candidate possessing B. A. (Economics) or B.Com. Degree could select only ‘Economics’ as his / her Core Course.
2. A candidate possessing B. A. (Sociology) or B.S.W. degree can select only Rural Extension as his/her Core Course.
3. A candidate will select his/her Core course in M.R.S. as per his/her Core subject at Bachelor’s degree only.
4. There will be a provision of one seat in each Core course of M.R.S. to get admission, which possesses the degree of B.R.S. (Rural Studies) or B.R.S. having Core Subject as English / Hindi / Gujarati.

**O. M. R. S. – 2**

Besides the candidates having the required qualifications as per O.M.R.S. – 1, sponsored candidate from Govt. / Semi Govt. / Grant–in–aid institutions and candidate from registered company or establishment, having any other qualification which can be considered as equivalent to graduation can be admitted provided that they fulfill the following conditions.

1. Employer of the said candidate will permit him / her for M.R.S. full time regular course for two consecutive years.
2. One who is second class / Grade graduate with 48% of marks or otherwise whose academic achievement is approved as equivalent to graduation by the Saurashtra University.

**O. M. R. S. – 3**

The M. R. S. (Master of Rural Study) programme being a full time course, a candidate can not join any other job or employment and cannot seek admission in any other courses / programme of this university or educational institution.
The candidates seeking admission in the M. R. S. (Master of Rural Study) have to participate in the labour work assigned to them.

The internal assessment for each semester will be conducted by the Head of the Department center and shall send the results of the same to the University, before commencement of the Semester End examination. The external (semester end) examinations of each semester will be conducted by the University.

The evaluation of each is divided into two parts: Internal and External evaluations. Out of total 100 marks for each course, the weightage of internal evaluation is 30% and that of external evaluation is 70%.

To complete a term (semester) student should remain present out of total teaching days; a candidate must have minimum 80% attendance and should have completed labor work in each semester, to appear in the external examination.

The passing standard for M.R.S. is 40% in each head separately, i.e. for internal as well as for external evaluation.

Rules of promotion shall be as under:

1. From semester I to semester II, if a student undergoes a regular course of study of the semester I and fulfills the required criteria of attendance and secures minimum 40% marks in the internal assessment component of each course of Semester – I.
2. From semester II to semester III, if a student undergoes a regular course of study of the semester II and fulfills the required criteria of attendance and secures minimum 40% marks in the internal assessment component of semester II.
3. From semester III to semester IV, if a student undergoes a regular course of study of the semester III and fulfills the required criteria of attendance and secures minimum 40% marks in the internal assessment component of semester IV.
marks in the internal assessment component of semester III and has cleared all the courses of Semester – I.

A candidate who fails in a semester, he/she shall be allowed for admission in the next semester as well as to appear in the examination of the next semester.

O. M. R. S. – 10

The final grade of the M.R.S. will be calculated on the basis of Cumulative Grade Point and Overall Grade Point System of Saurashtra University – Rajkot.

Regulations for Master of Rural Studies

R.M.R.S. – 01 : Internal Assessment

Internal assessment / evaluation will be made as per following:

The internal assessment would be made throughout the semester by the department. The continuous internal assessment may have components like written test, oral tests, quizzes, assignments, seminars, presentations, projects and institutional visits and/or any combination of these. Regularity and attendance may also be assessed for marking. The proposed internal evaluation would comprise following components:

1. **Written test** = 10 marks: A test of one hour duration for each course will be conducted during each semester.

2. **Assignment / Presentation / Institutional visits** = 10 marks: Each student will have to prepare an assignment or has to present on the topic given by his/her course teacher or has to visit an institution and will be evaluated by the teacher, during each semester.

3. **Written Quiz** = 10 marks: During each semester, one quiz test will be conducted, during the respective period of subject only. This quiz test shall objective type of question only.

R.M.R.S. – 02 :

The candidates seeking admission in the M. R. S. have to participate in labor work assigned to them compulsorily during the tenure of their study.

R.M.R.S. – 03 : Course structure :

The syllabus of M. R. S. is divided into four semesters and is of two years duration.
The course M. R. S. comprises of total of twenty (20) courses. Semester I to IV comprises a total of five courses in each: one foundation course, one core course and three M.D.C. courses. The total evaluation of M.R.S. comprises of 2000 marks where in each course carries 100 marks.

The detailed evaluation, weekly periods, courses & weight of each semester are given in the course structure and in the respective courses.

**R.M.R.S. – 04 :**

The external evaluation of Core – 4 will be done by a panel of two teachers: one of them will be a course teacher and the other one will be subject expert from the same or other college. The date and panel for the oral examination for above courses will be decided by the course teacher only and shall be made known to the university to issue orders.

Distribution of Marks for Core-4 (Semester – IV) :

(1) Internal assessment : Marks = 30
    
    Internal assessment shall include following three criteria to evaluate a student:
    
    (i) Identification and Selection of a problem for project work and preparation of project proposal = 10 marks
    
    (ii) Interest in work, devotion, responsiveness, sincerity and library work = 10 marks
    
    (iii) Term paper = 10 marks

    Above all three components will be evaluated by the respective course teacher only.

(2) External Assessment : Marks = 70

    The external evaluation of a student shall be made by a panel of two teachers:
    
    One will be the course teacher and second will be a Subject Expert from the same or other college with equal mark sharing.

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<td>Member – 2 (Subject Expert)</td>
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**R.M.R.S. – 05 :** The course structure, credits, maximum marks, course short code and title of each course of Master of Rural Studies are given below :

5.1 Following are the subjects prescribed for M. R. S. programme teaching and examination scheme.
# MASTER OF RURAL STUDIES

THE FOLLOWING ARE THE SUBJECTS PRESCRIBED FOR

## SEMESTER-I

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MDC means Multi disciplinary course
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SEMESTER-II

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<td>2</td>
<td>30</td>
<td>70</td>
<td>100</td>
<td>2. Integrated Insect Management</td>
</tr>
<tr>
<td></td>
<td>19070502041500</td>
<td></td>
<td>2</td>
<td>30</td>
<td>70</td>
<td>100</td>
<td>3. Agriculture Processing And Marketing</td>
</tr>
</tbody>
</table>

R.M.R.S. – 06 : Awards of Grades, Class, SGPA and CGPA

Credits, Grade , Class and Credit Points

6.1 Credit means the unit by which the course work is measured. In these Regulations: one credit means one hour of teaching work or one and half hours of practical work per week.

6.2 Grade is an index to indicate the performance of a student in a particular course (Paper).It is the transformation of actual marks secured by a student in a course/paper. It is indicated by a Grade O+,O, A, B+, B, C & D. There is a range of marks for each Grade .
6.3 Class is awarded to each grade and depending on range of the CGPA.

**Award of Grade and Class:**

<table>
<thead>
<tr>
<th>CGPA</th>
<th>Grade</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.5 ≤ CGPA ≤ 10</td>
<td>O*</td>
<td>First Class with Distinction</td>
</tr>
<tr>
<td>7 ≤ CGPA &lt; 8.5</td>
<td>O</td>
<td>First Class</td>
</tr>
<tr>
<td>6 ≤ CGPA &lt; 7</td>
<td>A</td>
<td>Higher Second Class</td>
</tr>
<tr>
<td>5.5 ≤ CGPA &lt; 6</td>
<td>B*</td>
<td>Second Class</td>
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<tr>
<td>4.8 ≤ CGPA &lt; 5.5</td>
<td>B</td>
<td>Pass Class</td>
</tr>
<tr>
<td>4 ≤ CGPA &lt; 4.8</td>
<td>C</td>
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</tr>
<tr>
<td>CGPA &lt; 4</td>
<td>D</td>
<td>Fail</td>
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</tbody>
</table>

**Semester Grade Point Average (SGPA):**

\[
SGPA = \sum (\text{credit} \times \text{grade point}) / \text{total credits}
\]

**Grade Points:**

<table>
<thead>
<tr>
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<th>Description</th>
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<tr>
<td>85 -100</td>
<td>8.5 - 10</td>
<td>O*</td>
<td>Outstanding</td>
</tr>
<tr>
<td>70 - 84.99</td>
<td>7.0 - 8.49</td>
<td>O</td>
<td>Excellent</td>
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<tr>
<td>60 - 69.99</td>
<td>6.0 - 6.99</td>
<td>A</td>
<td>Very Good</td>
</tr>
<tr>
<td>55 - 59.99</td>
<td>5.5 - 5.99</td>
<td>B+</td>
<td>Good</td>
</tr>
<tr>
<td>48 - 54.99</td>
<td>4.8 - 5.49</td>
<td>B</td>
<td>Fair</td>
</tr>
<tr>
<td>40 - 47.99</td>
<td>4.0 - 4.79</td>
<td>C</td>
<td>Average</td>
</tr>
<tr>
<td>20 - 29.99</td>
<td>2.0 - 2.99</td>
<td>E</td>
<td></td>
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<tr>
<td>10 - 19.99</td>
<td>1.0 - 1.99</td>
<td>F</td>
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<tr>
<td>0 - 9.99</td>
<td>0.0 - 0.99</td>
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**Equivalent percentage based on SGPA:**

Equivalent percentage = SGPA x 10

**Cumulative Grade Point Average (CGPA):**

\[
CGPA = \left( \frac{\text{SGPA(semester I)} + \text{SGPA(semester II)} + \text{SGPA(semester III)} + \text{SGPA(semester IV)}}{\text{No. of semester}} \right)
\]
### MASTER OF RURAL STUDIES

**THE FOLLOWING ARE THE SUBJECTS PRESCRIBED FOR**

**SEMESTER-I**

<table>
<thead>
<tr>
<th>Sr No.</th>
<th>Course Code</th>
<th>Course Category</th>
<th>C</th>
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<th>EM</th>
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<td>M.FND-101</td>
<td>2</td>
<td>30</td>
<td>70</td>
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<td>Rural Technology</td>
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<td>2</td>
<td>19070202010200</td>
<td>M.Core-101</td>
<td>2</td>
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<td>100</td>
<td>1. Agronomy</td>
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<td>30</td>
<td>70</td>
<td>100</td>
<td>2. Horticulture &amp; Forestry</td>
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<td>19070202010400</td>
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<td>30</td>
<td>70</td>
<td>100</td>
<td>3. Animal Husbandry</td>
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<td>30</td>
<td>70</td>
<td>100</td>
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<td>30</td>
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<td>100</td>
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<td>19070302010900</td>
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<td>30</td>
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<td>100</td>
<td>3. Philosophy and Contents of Extension</td>
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<td>4</td>
<td>19070402011000</td>
<td>M.MDC-102</td>
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<td>1. Concept of social reconstruction</td>
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<td>19070402011100</td>
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<td>30</td>
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<td>2. Rural development in India</td>
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<td>19070402011200</td>
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<td>30</td>
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<td>3. Olericulture</td>
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<td>M.MDC-103</td>
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<td>2</td>
<td>30</td>
<td>70</td>
<td>100</td>
<td>2. Sociology of Tribal Society</td>
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<tr>
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<td>2</td>
<td>30</td>
<td>70</td>
<td>100</td>
<td>3. Reproduction in Farm Animals</td>
</tr>
</tbody>
</table>

MDC means Multi disciplinary course
Title: Rural Technology

Objectives:-
1. Student aware with knowledge of resources in rural area
2. Student aware with knowledge of farm implements, so can use in his farming practices.
3. Student aware with knowledge of green house technology, so can use in his farming practices.

Course:

<table>
<thead>
<tr>
<th>Unit</th>
<th>Course:</th>
<th>Credits</th>
<th>Int. marks</th>
<th>Ext. marks</th>
<th>Prac./viva marks</th>
<th>Ext. exam time duration</th>
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<tbody>
<tr>
<td>1</td>
<td>Energy resources</td>
<td>30%</td>
<td>30</td>
<td>70</td>
<td>--</td>
<td>2.5 Hrs</td>
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<tr>
<td>1.1</td>
<td>Energy Crisis</td>
<td></td>
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<tr>
<td>1.2</td>
<td>Conventional and non-conventional sources of energy.</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>1.3</td>
<td>Non conventional: Bio-Gas energy, Solar Energy, Wind Energy, Waves and tides, their development and utilization.</td>
<td></td>
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</tr>
<tr>
<td>1.4</td>
<td>Energy saving in kitchen.</td>
<td></td>
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<tr>
<td>2</td>
<td>Farm implements: importance and use (in brief)</td>
<td>20%</td>
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<tr>
<td>2.1</td>
<td>Tractor</td>
<td></td>
<td></td>
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<tr>
<td>2.2</td>
<td>Spray pump</td>
<td></td>
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<tr>
<td>2.3</td>
<td>Plough</td>
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<tr>
<td>2.4</td>
<td>Hoe &amp; Harrow</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>2.5</td>
<td>Rotavator</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>3</td>
<td>Green House technology</td>
<td>15%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.1</td>
<td>Importance &amp; Scope</td>
<td></td>
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<td>3.2</td>
<td>Principles of green house</td>
<td></td>
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<td>3.3</td>
<td>Types of green house</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>4</td>
<td>Use of Plastic in Horticultural Crop</td>
<td>20%</td>
<td></td>
<td></td>
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<tr>
<td>4.1</td>
<td>Plastic Bag in nursery.</td>
<td></td>
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<tr>
<td>4.2</td>
<td>Mulching</td>
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</tr>
<tr>
<td>4.3</td>
<td>Pipe Line</td>
<td></td>
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<tr>
<td>4.5</td>
<td>Drip and Sprinkle irrigation.</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>4.6</td>
<td>Packing and Storage in fruit and flower.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>4.7</td>
<td>Plastic House / Green House.</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>5</td>
<td>Nursery in Rural Area</td>
<td>15%</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>5.1</td>
<td>Fruit</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>5.2</td>
<td>Flower</td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>5.3</td>
<td>Forest Tree</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Selection of place, land preparation, aftercare, Marketing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
References

(1) “Fal ane Ful” (Gujrati edition- March 2015)
    pub.: Directore of extension education, J. A.U.- Junagadh.

(2) “Falpako” (Gujrati edition- March 2013)
    pub.: Directore of extension education, A. A. U., Anand

(3) “Fal visheshank” (Gujrati edition)

(4) Non conventional Energy (Gujarati edition)- Anil K. Popat
Faculty of Rural Studies

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Sem.</th>
<th>Core/ MDC/ Foundation</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Int. marks</th>
<th>Ext. marks</th>
<th>Prac/viva marks</th>
<th>Ext. exam time duration</th>
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<tr>
<td>M.R.S.</td>
<td>I</td>
<td>M.Core -101</td>
<td>19070202010200</td>
<td>Agronomy</td>
<td>2</td>
<td>30</td>
<td>70</td>
<td>--</td>
<td>2.5 Hrs</td>
</tr>
</tbody>
</table>

**Title:** Research Design in Agriculture

**Objectives:-**
1. Students should know about the selection of site for experiments and uniformity trials
2. To aware the students about principles of experimental design
3. Students should be aware about the simple design of experiments
4. Students should know the methods and preparation of questionnaire.
5. The student should aware about to collect the sample, methods of sampling from the field and its analysis.

**Theory:-**

**Unit:-1** Questionnaire: - 15%
1.1 Definition and meaning of questionnaire
1.2 Characteristics of questionnaire
1.3 Merits of demerits of questionnaire
1.4 kinds of questionnaire

**Unit:-2** Sampling and observations 15%
2.1 What is sampling
2.2 Importance of sampling
2.3 Methods of sampling
2.4 observations & its importance
2.5 Importance observation taken during experimentation for major field crops

**Unit:-3** Some important definitions used in field experiments design, objectives and types of field experiments, uniformity trial and principles of field experiments. 20%

**Unit:-4** Field experimental design: - 40%
4.1 Aims and classification of experimental design and uniformity trials
4.2 Simple designs of experiments
4.3 Paired design of experiment
   4.3.1 Completely Randomized Design
   4.3.2 Randomized Block Design
   4.3.3 Latin Square Design

**Unit:-5** Care to be taken during field experiments 10%
References:

1. "Kshetra Prayog ni Karya Paddhati" (Gujarati Edition)
   - Dr. Ambalal Sendhabhai Patel & Shri Mahesh Ramnikbhai Vaishnav
2. Agricultural Statistics in India
   - P.C. Bansil
3. Field Experimental Design.
   - Chandel R.S.
4. "Samajik Sansodhan Paddhatio" (Gujarati Edition)
   - A.G. Shah & J.K. Dave
Title: Fruit production

Objectives:

(1) Student gets knowledge about recent production technology in fruits.
(2) To know the principal of fruit production so useful in progressive farming.
(3) Create self - employment source.

Theory: -

(100%)

Unit: 1
Defination, importance, scope, and problems of fruits (10 %)

Unit: 2
Planning of orchard (20 %)
- Planning of orchard, selection of plant ,
  - Ideal orchard and planting method

Unit: 3
After care in fruit crops (25 %)
- Training and pruning in fruit
- Fertilizer requirement
- Weed and weed management
- Treatment of “Bahar”

Unit: 4
Irrigation methods in orchard (25%)

Unit: 5
- Varietal characteristic of fruits
  - Integrated pest management in fruit crops. (20%)

References

(1) “ Fal ane Ful ” (Gujrati edition- march 2015 )
(2) “ Falpako ” (Gujrati edition- march 2013)
  pub.: Directore of extension education, A. A. U., Anand
(3) “ Fal visheshank ” (Gujrati edition)
### Faculty of Rural Studies

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Sem.</th>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Int. marks</th>
<th>Ext. marks</th>
<th>Prac/ viva marks</th>
<th>Ext. exam time duration</th>
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<td>30</td>
<td>70</td>
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<td>2.5 Hrs</td>
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Faculty of Rural Studies

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<th>Sem.</th>
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<th>Course Code</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Int. marks</th>
<th>Ext. marks</th>
<th>Prac./ viva marks</th>
<th>Ext. exam time duration</th>
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<td>I</td>
<td>M.Core -101</td>
<td>19070202010500</td>
<td>Rural Extension</td>
<td>2</td>
<td>30</td>
<td>70</td>
<td>--</td>
<td>2.5 Hrs</td>
<td></td>
</tr>
</tbody>
</table>

**Title:** ग्राम विकासनी ईतिहास

**Objectives:-**

1. व्यक्ति, जून तथा समुह ने तैयार करवा.
2. विविध योजनाओं के अनुसार करवाया.
3. ग्राम विकासनी बांधव परिषदों के अनुसार करवाया.
4. स्वरूपीकरण संस्थाओं के विधायकों के लिए जानकारी करवाया.

**अभ्यासक्रम**

1. ग्राम विकासनी प्रामुख्य का कार्य ग्राम विकासनी ईतिहास, अने ग्राम विकासनी के अनुसार लेखन.
2. ग्राम विकासनी संस्थाओं (विभिन्न सेक्टरों) का अभ्यास, अने ग्राम विकासनी के अनुसार अभ्यासक्रम.
3. ग्राम विकासनी संस्थाओं के अनुसार अभ्यास, अने ग्राम विकासनी के अनुसार अभ्यासक्रम.
4. ग्राम विकासनी संस्थाओं के अनुसार अभ्यास, अने ग्राम विकासनी के अनुसार अभ्यासक्रम.
5. ग्राम विकासनी संस्थाओं के अनुसार अभ्यास.

**सहायक अङ्कः**

1. भारतीय सामाजिक संस्थाओं - प्रो. शाह / जोहरी
2. ग्राम विकास - वो. बालुबाई अमरावती.
3. भारत गरीबी - वो. रोहित शुक्ला.
4. सुरक्षा अर्थशास्त्र - सीदह / भवदर.
Title: Agriculture Economics.

Objectives:
1. To know Basic Issue Of Agriculture Economics.
2. To Know About Cropping pattern.
3. To Know About Agri. Credit Structure
4. To Familiarise Student With Policy issue That are relevant to Indian agri. Economics & enable then to analyze the issue.

UNIT-1 Meaning and characteristics of agriculture economics The place of agriculture in the national economy trends of Agriculture production and productivity after independence agri. productivity, causes of low Productivity, measures.

UNIT-2. Land use and cropping pattern in India since.1951 factors affecting cropping pattern.

UNIT-3 Agriculture inputs, importance, progress & limitations - irrigation, fertilizers and manures, seeds, soil conservation and reclamation. animal husboudry and dairy development.

UNIT-4. size of farms and productive efficiency - the meaning of Economic holding, size pattern of operational holding, farm size, productivity/profitability & farm efficiency. The problem of sub division and fragmentation of holding - causes and remedies

UNIT-5. sources of credit for Indian farmers – institutional and non-institutional credit,limitations of non-institutional credit, importance of institutional credit, co-operative finance- structure, achievement and limitations.

References:
1. A.N.Agrawal/ Kundanlal-Agricultural problems in India,- Vikash Pub. House
2. Ruddar Datt & KPM Sundaram-Indian Economy,- S.Chand & Co. Ltd. N. Delhi
Title :- Water Resource Management

Objectives :-
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.

Theory :

Unit : 1 Introduction to water Resource Management.
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
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
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 held group.
   - Use group.
   - Homogeneous group.
   - Watershed.
3.5 Characteristics of watershed.
Unit : 4 Water harvesting. 15 %
4.1 People’s participation in watershed management.
4.2 Necessity of rain water harvesting.
4.3 Methods of rain water harvesting.
   1. Check dam.
   2. Percolation Tank.
   5. Plantation tree.
   6. Well recharge.

Unit : 5 Advance Water Application Method 20 %
5.1 Function of irrigation water.
5.2 Sprinkler irrigation system
   Classification of irrigation system
   Advantages of irrigation system
   Disadvantages of irrigation system
5.3 Drip irrigation system.
   Part of Drip irrigation system.
   Advantages of drip irrigation system.
   Disadvantages of drip irrigation system.
5.4 Visit to a farm and practical.
   Study of drip irrigation.
5.5 Collect the information related to motivation of drip irrigation system about
   Government policy.

References :-
1. Water resources management (Gujarati Edition) – Anil K. Popat
3. हूंडती संपत्ति - विकास अने व्यवस्थापन - आघुण्डी अवराणी
4. Rain water Harvesting – Arnold Racey.
Title: Pomology

Objectives:-

(1) Student gets knowledge about recent production technology in fruits.
(2) To know the principal of fruit production so useful in progressive farming.
(3) Create self - employment source.

Theory: -

(100%)-

Unit: 1  Defination, importance, scope, and problems of fruits (10 %)

Unit: 2  Planning of orchard (20 %)
-Planning of orchard, selection of plant ,
- Ideal orchard and planting method

Unit: 3  After care in fruit crops (25 %)
- Training and pruning in fruit
- Fertilizer requirement
- Weed and weed management
- Treatment of “Bahar”

Unit: 4  importance of watering in fruit crops & Irrigation methods in orchard (25%)

Unit: 5  Varietal characteristic of fruits & Integrated pest management in fruit crops. (20%)

References

(1) “ Fal ane Ful ” (Gujrati edition- march 2015 )
(2) “ Falpako ” (Gujrati edition- march 2013)
   pub.: Directore of extension education, A. A. U., Anand
(3) “ Fal visheshank ” (Gujrati edition)
Faculty of Rural Studies

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**Title: Philosophy and Contents of Extension**

**Objectives:-**

1. विद्यार्थिओं विस्तरण शिक्षणी महत्वनी आभारो विशे जाने.
2. विद्यार्थिओं विस्तरण शिक्षणी धौतिलाल अन्य शिक्षार्थी परिवर्तित बने.
3. परदेशावरी विस्तरण सेवाओऽही महत्वगर्त बने.
4. भार्तीय ग्रामीण सभाजन समझे.
5. सामुदायिक विकास कर्मचारी कर्त्त्व जाने.

**अभ्यासक्रम**

**अक्षम :- १**

1. विस्तरण शिक्षणातील तत्त्व.
2. विस्तरण शिक्षणातील महत्त्व.
3. विस्तरण शिक्षणातील अर्थात्मक.

**अक्षम :- २**

1. विस्तरण शिक्षणातील धौतिलाल.
2. विस्तरण शिक्षण प्रदैवसा सोपनाते.
3. विस्तरण शिक्षणातील तत्त्वाधान.

**अक्षम :- ३**

परदेशावरी विस्तरण शिक्षण सेवाओऽही:

1. आमेरिका २. इंग्लिशपाठी ३. जापान ४. अर्मी

**अक्षम :- ४**

भार्तीय ग्रामीण कसम.

1. भारत ग्रामरत्न.
2. ग्राम विस्ताप फ्राकस.
3. बांधवा.
4. ग्राम सभाजनक शक्ती.

**अक्षम :- ५**

सामुदायिक विकास कर्मचारी कर्त्त्वाते:

1. भोजनातील तरीके २. अर्थसंपादक तरीके ३. नियात तरीके ४. विकिलिक तरीके.

**सहली संदेश:-**

1. धृष्टि विस्तरण शिक्षण - धृष्टि अवराजी पदेक.
2. सामुदायिक विकास अनेक धृष्टि विस्तरण - धृष्टि अवराजी.
3. विस्तरण शिक्षणातील युगलने - प्रो. चौरास पदाच.
Title: Concept of Social Reconstruction

Objectives:-

1. विषयांको समाजनविनिमय विशेष दान प्राप्त करें.
2. विषयांको 10 वर्षे तलवार अने विषयांकी समज केले नयें.
3. विषयांको केश अने अमेरिकन अंतर्दोष परीक्षित याप.
4. विषयांको अभावाक्ष, अभावाक्ष लीकन अने जांचन ल्युबर्डिंग विशेष दान प्राप्त करें.

अभ्यासमय

अभ्यास :- 1 समाजनविनिमय अंतर्दोष शुरू ते शा मात्र झटक छ? समाजनविनिमय स्वयं अने चेतन 10%
अभ्यास :- 2 समाजनविनिमयांच्या संदर्भ परिस्थितीमध्ये वर्तुळांच अंदाजे शुरू तेना उद्देश्यांना करावे. 25%
मानव जागरूकता धर्मभावाने तलवार - तलवाराच्या व्यापार अने लक्षण.
तलवाराच्या झटक - झटक शाखाचाच.
अभ्यास :- 3 ईश्वरांनी अमेरिकन अंतर्दोष तेना करावे अने तीनी असरे समाज पूर्ण: निर्माणाची ओक प्रक्रिया न्याशीते कार्ती 20%
अभ्यास :- 4 सत्य द्वारा समाजांत्रिक अंतर्दोष मार्गांने ल्युबर्डिंग जुनियर, जाहीर क्लासी.
सोडेलसुंच ज्ञान अने तेनुं धिनत.
अभ्यास :- 5 अभावाक्ष लीकन अने अभावाक्षस्थानी उपचुकसाट अने मुख्यांकन.
पोटोंच ज्ञान अने तेनुं आडाच नगर राजक.

सहर्ष प्रश्नो:-

1. विषयांको ईश्वरीय - प्र. धार्मिका
2. समुंदरी अंतर्दोष विशेषाचा - डॉ. धोषवाल महावाला
3. आपणी दर्शन - प्र. आ.रा. धूप
4. संथागिन परिस्थितीमध्ये अंतर्दोष - प्र. आ.च. शांत अने जे. के. हेरे
5. घटना प्रभावांना - प्र. धार्मिकांचा
6. भारतीय तलवार - प्र. सी.वी. रावण
7. जागरूकता अंसार - जे. ओ माळिक
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<table>
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Title: Rural Development in India

Objectives:

Course: 100%

UNIT-I 20%
- 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 20%
- 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 20%
- Characteristics of Indian Rural Life.
- Agricultural Scenario in Independent India.
- National Agriculture Policy
- Problems of Indian Agriculture.

UNIT-IV 20%
- 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 20%
- 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
Faculty of Rural Studies

<table>
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<th>Name of Course</th>
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**Title:** Olericulture

**Objectives:-**

(1) Student gets knowledge about vegetable production
(2) To know the principal of vegetable production so useful in progressive farming.
(3) Create self - employment source.

**Theory:** 100%

**Unit: 1**
Definition, importance, scope, and problems of vegetable growing 20 %

**Unit: 2**
Importance of Hybrid varieties and seed production in vegetables 20 %

**Unit: 3**
Seedling and Bordeaux mixture in seedling in vegetables 20%

**Unit: 4**
Plant growth regulator, Weed and weed management 20 %

**Unit: 5**
Crop protection & Fertilizer requirement in vegetables. 20%

**References**

(1) “Shakbhaji vigyan ” (Gujrati edition) – Babubhai Avarani.
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<table>
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Title: Natural Resources Management

Objectives:-
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: 100%

Unit: - 1 Environment and natural resources. 20%
1.1 Definition of environment, Environment on the earth.
1.2 Cycles which keep the environment in balance.
1.3 Manmade and natural environment.

Unit: - 2 Pollution 20%
2.1 Definition of pollution, Types, Cause and effects.
2.2 Effect of pollution on human life.

Unit: - 3 Environment & Society 20%
3.1 "Eco-Friendly" Approach for conservation and protection of natural resources.
3.2 "Chipko Andolan".
3.3 Environmental acts: air, water & protection

Unit: - 4 Energy 20%
4.1 Definition of energy, types.
4.2 Merits and demerits of renewable sources of energy.

Unit: - 5 Environment Conservation 20%
5.1 Soil
5.2 Energy
5.3 Forest

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 jagiya paryavaran bachaviye - Dr.Rameshchandra J. Bayani
6. Kudarat Sampati vikat andvyavasthapan - Babubhai avarani
Title: Sociology of Tribal Society

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:- 100%

Unit: - 1 Sociology of Tribal Society.
- 1.1 Meaning, Concept, usefulness of Tribal Society.
- 1.2 Definition and character of schedule tribes.

Unit: - 2 Economic Classification of S.T

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
- Poverty, dept, illiteracy and agriculture problems lifestyle of various

Unit: - 5 Introduction to Tribes in Gujarat
- 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
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**Title:** Reproduction in Farm Animals

**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%
- Male Reproductive System: Organs
- Female Reproductive System: Organs

**Unit-2** Hormones related to Reproduction. 10%

**Unit-3** Mechanism of Female Reproduction 20%
- Gametogenesis: Oogenesis, Spermatogenesis

**Unit-4** Estrus Cycle and Ovulation 10%

**Unit-5** Mammary Gland and Milk Secretion 30%
- Structure and Functioning of udder.
- 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 - BAI F
THE FOLLOWING ARE THE SUBJECTS PRESCRIBED FOR

SEMESTER-II

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Title: Rural Development

Objectives:-
1. The students will aware with the basic problems of rural areas.
2. To aware the rural peoples about the govt. scheme Related to Rural area.
3. To appraise the students with rural society.

Theory : 100%
Unit : 1 Economics Development and Economic growth. 20 %
- Meaning and definition and difference of economic development and economic growth.
- Characteristics of economic development

Unit : 2 India is a developing country 20 %
- Characteristics of economic growth.
- Determination of requirements of economic growth.
- Characteristics of under developed Economy.

Unit : 3 Community Development Programme 20 %
- Meaning of community development projects.
- Objectives of community development projects.
- Administrative structure of community development projects.
- Programmers of community development projects.
- Impact on Rural Society.

Unit : 4 Sustainable Developments 20 %
- Sustainable Development’s meaning and Definition.
- Sustainable Development’s indicators.
- Environment conservation in India & sustainable development.

Unit : 5 Programs for Rural Development. 20%
- HYVP
- IADP
- SFDA
- IRDP
- TRYSEM

References :-
2. Rural Sociology – Jagdish Dave.
Faculty of Rural Studies

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<td>2</td>
<td>30</td>
<td>70</td>
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<td>2.5 Hrs</td>
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</tbody>
</table>

**Title:** Advance Agronomy

**Objectives:-**
1. To know the Advance technique in Agronomy
2. To create self employment.
3. To provide knowledge of progressive farming.

**Unit: 1 Organic farming.** 20%
- Definition & Meaning
- Principles of organic farming
- Factor affecting organic farming.
- Merits & demerits of organic farming.

**Unit: 2 Hydroponics** 20%
- Definition & Meaning
- History of Hydroponics
- Types of Hydroponics
- Merits & demerits.

**Unit: 3 Bio - fertilizer** 20%
- Definition & Meaning
- Classification of bio-fertilizers
- Preparation and application of bio-fertilizer

**Unit-4 Mushroom Cultivation** 20%
- Introduction
- Food value of mushroom
- Cultivation practices of different types of mushroom

**Unit-5 Tissue Culture** 20%
- Meaning & importance
- Methods of tissue culture

**References:-**
1. Pragatisil Kheti (Gujarati Edition)
   - SSK, JAU- Junagadh
2. Mushroom Cultivation
   - J.N. Kapoor
3. Hydroponics
   - Nagendra Vijay
4. Bacterial Fertilizer
   - B.R. Tilak
Faculty of Rural Studies

<table>
<thead>
<tr>
<th>Name of Course</th>
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<td>Horticulture &amp; Forestry</td>
<td>2</td>
<td>30</td>
<td>70</td>
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</table>

**Title:** Production Technology in vegetable

**Objectives:-**

(1) Student gets knowledge about vegetable production
(2) To know the principal of vegetable production so useful in progressive farming.
(3) Create self - employment source.

**Theory:** - 100%

- **Unit: 1**  Defination, importance, scope, and problems of vegetable growing 20 %
- **Unit: 2**  Importance of Hybrid varieties and seed production in vegetables 20 %
- **Unit: 3**  Seedling and Bordeaux mixture in seedling in vegetables 20 %
- **Unit: 4**  Plant growth regulator, Weed and weed management 20 %
- **Unit: 5**  Crop protection & Fertilizer requirement in vegetables. 20 %

**References**

(1) “Shakbhaji vigyan” (Gujrati edition) – Babubhai Avarani.
Faculty of Rural Studies

<table>
<thead>
<tr>
<th>Name of Course</th>
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Title :- Animal Feeds and Nutrition

Objectives :-
1. To learn Importance of Feed’s and Nutrition.
2. To understand the concentrates.
3. To understand the Animal Nutrition.

Theory : 100%

Unit : 1 Composition and classification of feed stuffs :- Roughages : Dry and Succulent. 15%

Unit : 2 Concentrates :- Energy rich and protein rich :- Energy rich concentrates 15%

Unit : 3 Protein rich concentrates : Plant, Animal & NPN feed stuffs. 15%

Unit : 4 Unconventional Livestock feeds in India 20%
- Vegetable protein sources.
- Animal protein sources.
- Energy sources.
- Miscellaneous feeds.

Unit : 5 Nutrients of feeding stuffs and animal body : water, carbohydrates, protein, Lipids and minerals. 35%
- Feed supplements and buy pass proteins.

References :-
1. पशु आहार - श्री. अंब. पटेख - अं. अं. राधीपा
2. पशु आहार (पशौषस) - श्री. अंब. पटेख - अं. अं. राधीपा
3. Animal Nutrition - Maynard & Loosli
5. गोदार्न - पशुपोषण विशेषज्ञ
Title: Leadership in extension education

Objectives:

1. Educate students about the importance of rural extension.
2. Develop the skills necessary for effective extension work.
3. Foster leadership qualities among students.
4. Enhance the understanding of rural extension processes.
5. Prepare students for leadership roles in rural development.
Title :- Banking & Rural Finance

Objectives :-
1. To become aware about banking system.
2. To understand importance of credit in Rural Aria.
3. To think about how get easily finance in the Rural Aria.

Theory : 100%

Unit : 1 Importance of Credit in Agricultural, classification of Agricultural Finance. Principles of sound Agricultural Credit. 20%

Unit : 2 Commercial Bank – Functions, Credit creation – Achievement and problems In Rural Finance. Regional Rural Banks (RRBS) – Progress & limitations. 20%

Unit : 3 Co-operative credit structure in India. Short term structure – objectives, functions & limitations. Long term structure – objectives, functions & limitations. 20%

Unit : 4 NABARD – objectives, functions & limitations Concept of micro finance and its relevance for Rural Development. 20%

Unit : 5 Central Bank – Meaning & Functions Instrument of credit controls. 20%

References :-
1. Mitogs – Money and Banking.
2. C. M. Chaudhari – Banking & Finance.
4. S. B. Gupta – Moneytary Planning in India.
5. S. S. Tarapoor – Indian Financial Policy.
Title: - Poultry Production

Objective:-
1. To understand the importance of management skills for poultry industries.
2. To Learn about care and management of layer birds and broiler birds.
3. To understand how to make poultry business profitable.
4. To understand the importance of disease control in birds.

Course:

Unit: 1 Terminology related to poultry  
Poultry rearing  
Different methods, merits-demersits  

Unit: 2 Incubation, hatching and brooding  
Types of Hatching, care during hatching  
Brooding of chicks and types of brooders  

Unit 3 Principles of Light requirement and management of birds  
Methods of application,  
Care and management of Layer birds and Broiler birds  

Unit 4 Eggs:  
The structure and nutritive value of eggs  
Egg marketing, and wrong beliefs about eggs  

Unit 5 Poultry Development Projects  
Different government schemes to establish different poultry businesses  
Institutions engaged in poultry business of the state  

Reference:-
1. A text book of animal husbandry -by G.C Banerjee  
3. Margha Palan NT Maheta and Ghasura, University Granth Nirman Board- Gandhinagar
### Title: Leadership in extension education

**Objectives:**

1. विद्यार्थियों नेतृत्व तेना प्रकारे अनें पश्चिमाधी माहिकागार बनें.
2. विद्यार्थियों नेतानी काम कर्तव्यी क्रम (ढीलेबी) माहिकागार बनें.
3. विद्यार्थियों नेतृत्व नाती परिप्रेक्षा बनें.
4. विद्यार्थियों स्थानिक नेता द्वारा काम कर्तव्या कायदा, तेना उपयोग, तेना गुणो, परंपरां अनें तालिम
किरेता जाएं
5. विद्यार्थियों नेतृत्व गुणो विकस.

<table>
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<th>Name of Course</th>
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</table>

**अभ्यासक्रम**

**ओक्षम :- 1**

अर्थ : नेता अनें नेतृत्व

नेतृत्वना प्रकारे

नेतृत्वनी पद्धतियो

1. सतामुखी
2. वीरभद्री
3. अनिचमांत / वीरवली कवरनी

**ओक्षम :- 2**

नेताओनी काम कर्तव्यी क्रमो.

1. वि / सतामो उपयोग
2. वीरवलीनो उपयोग
3. अरेस - परेस महदनो उपयोग

**ओक्षम :- 3**

समुक गत्यासुना विषयांती

**ओक्षम :- 4**

नेतृत्वना अर्थी

1. परिस्थितीतीनो गोंडवल करवी.
2. समुकना वर्तन उपर अंकुष राखवो.
3. समुक माटे बोलावु

**ओक्षम :- 5**

नेता

1. स्थानिक नेताओना कायदा.
2. स्थानिक नेताओं द्वारा काम कर्तव्यां वक्षया राष्ट्रवाणा मुखां.
3. विस्तार्त्र प्रवृतिमा स्थानिक नेताओं उपयोग
4. नेताओनी कक्ष
5. नेताओं गुणो, परंपरां अनें तालिम
6. नेताओनी तालिम शिक्षार

**सहल्ल अंशोः**

1. कृषि विस्तार्त्र शिक्षण - ऊर्जाबाहिर पेटेल
2. विस्तार्त्र शिक्षणां युगातत्तवा - व्रो. पीरज भान
Faculty of Rural Studies

<table>
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<td>70</td>
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<td>2.5 Hrs</td>
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Title :- Forestry

Objective:-
(1) Student gets knowledge about forest
(2) To aware with laws of forest and wild life animal
(3) To aware with social forestry and help in forest conservation.

Theory:-

Unit: 1 Social forestry
1. Importance
2. Scheme
3. Conservation of forest

Unit: 2 Apiculture (Honey bee keeping)
1. Importance
2. Types of bee
3. Structure of comb
4. Method of honey bee rearing
5. Centres of bee rearing

Unit: 3 Wild life century and national park in Gujarat state
- Introductory information about wild life animals like; lion, tiger, monkey, deer, leopard, peacock, snake, birds.

Unit: 4 Medals awards of forest department
- the environment protection act
- forest conservation act
- the wildlife protection act

Unit: 5 Forest trees and its medicinal use:
1. Satavari
2. Ardusi (Adhatoda vasaca)
3. Nagod
4. Brahmi (Centella asiatica)
5. Kaucha (Mucuna pruita)
6. Arjun (Terminalia anjuna)
7. Harde (Terminalia chebula)
8. Karanj (Pongamia pinnata)
9. Amla
10. Garmalo
11. Galo
12. Jethimadh
13. Mahudo
14. Neem (Azardica indica)

References
Title: - Computer Application

Objectives: -
1. Students are aware with basic knowledge of computer.
2. Students are aware with knowledge of computer application.
3. Students are aware with use of computer in his life.

Unit: 1 Introduction to Computer
- Introduction,
- Characteristics
- Functions
- Generations
- Types

Unit: 2 Hardware & Software
- Software
  - Input, Output devises & C.P.U.
  - Memory- internal & external
  - Software- system software, application software

Unit: 3 MS Office (2007)
- MS-world - facility, screen, Tab.
- MS-excel- facility, screen, Tab.
- MS-PowerPoint- facility, screen, Tab.

Unit: 4 Internet
- Introduction,
- Use of internet
- E-mail, - merits and limitation
- net -banking
- Social site- facebook, whatsapp.

Unit: 5 Uses of Computer in Everyday Life

Reference Books
1. Basic Computer Application- H. B. Bhadka, Dr. N. N. Jani, Dr. G. R. Kulkarni
2. Computer Parichay - Computer Jagat
3. Computer Fundamental
Title :- Floriculture

Objectives:-
Design a course with objectives of
Student gets theoretical as well as practical knowledge of Flower cultivation practices so useful in progressive farming
Create self - employment source.

Course

Unit - 1 Floriculture
1.1 Definition
1.2 Importance
1.3 Salient future

Unit - 2 introductory information about Flowers
2.1 Annual (Seasonal)
2.2 Biannual

Unit - 3 Cultivation practices of major flowers of Gujarat state.
3.1 Rose
3.2 Marigold
3.3 Chrysanthemum
3.4 Aster and others.

Unit - 4 Greenhouse technology for flower crops.

Unit - 5 Government scheme to motivate flower cultivation & production

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
### Faculty of Rural Studies

<table>
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<tr>
<th>Name of Course</th>
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### Title
- Personality Development

### Objective:
1. To acquire ability of self development and
2. To develop a protection personality and bring the dreams to a truth.
3. To develop understand about one self as a center self of the globe.
4. To develop self confidence in own work and play an importance role.

### Course:

#### Unit: 1
- Personality development (P.D)-
  1.1 Definition, internal qualities,
  1.2 Characteristic of P.D-
  1.3 To bring importance among human correspondence.
  1.4 Internal at steps for efficient personality.

#### Unit: 2
- Influence of self development.
  2.1 Identification of own goals
  2.2 Suggestions for self development
  2.3 Keys for self development
  2.4 Knowledge requirement for P.D
  2.5 Three importance dimensions of P.D
  2.6 Slogans for successful life.

#### Unit: 3
- Positive self image
  3.1 Types hurdles & evaluations, of self image.
  3.2 Factors affects of self image.
  3.3 Positive effects of self image

#### Unit 4
- Self affections & self impression
  4.1 Characteristics of excessive self affection
  4.2 Factors of self realization.

#### Unit 5
- Frame of reference.
  5.1 Possibility of values of life and its concept
  5.2 Concept of "myself as a complete personality"
  5.3 Fundamental thought & values of modern management.
  5.4 Ten styles of management.

### Reference:
1. Personality development kevi rite? - Raju Andharia
2. Safalata kem melvaso?
3. Mahiti personlity
<table>
<thead>
<tr>
<th>Name of Course</th>
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**Title :- प्रशिफ्त कृतिमो**

**कृतिमो:-**

1) "माधव कवांग नथी" - हरीन्द्र देवे
2) "हिंदेन्नी वातो" भाग - १ - र.वि. पाठक

**छेदः:-**

1) विद्यार्थीमों नववाक्य साहित्यस्वरूपनो आत्मवाक माहे.
2) विद्यार्थीमों नववीकारणो आत्मवाक माहे.
3) विद्यार्थीमों कम्पनी शिक्षित विस्तार
4) विद्यार्थीमों नीतिमता, प्रमाणिता, लागणी, संवेदनशीलता जेवा मानवीय गुणो विकसे.

**अभ्यासक्रम:**

**अभ्यास :- १ नववाक्य साहित्य स्वरूपनो उद्ध्वत्त विचार** 10%
**अभ्यास :- २ लर्णनदेखी जलन - क्रमनो परिष्कार** 10%
**अभ्यास :- ३ "माधव कवांग नथी" नववाक्यांनून समग्र बळी मूल्यांकन, कथासंतो, पाण्यांवेचन, संवादांकण, धार्मिक,
व्यवसाय नववाक्यांनून आरंभ - अंत, शीर्षक वर्गेने संसारे** 30%
**अभ्यास :- ४ हिंदेन्नी वातांनी उद्ध्वत्त विचार अने सर्जक र.वि. पाठकांनु जलन - क्रमन** 15%
**अभ्यास :- ५ हिंदेन्नी वातांनी भाग १ नुं समग्र बळी मूल्यांकन.** 35%

1 शी १३ - वातांनी - हिंदेन्नी वातांनी स्वतःस्वरूपीत पात्रता संदर्भांमध्ये - संदर्भ समस्यात वर्गेने
धारामध्ये राष्ट्री मूल्यांकन

**सहर्ष प्रश्नो:-**

1. प्रश्न अने प्रश्नकार श्रीधर - गुजरात साहित्य परिषद
2. गुजराती साहित्य भाषा - १ शी ४ - सं उमाशंकर श्रीधर
3. गुजराती साहित्यनाग दिविकास - संस्थापक श्री. शाश्वत
4. गुजराती साहित्यसारो उपरेया भाग १ - २ -विज्ञानी श्री. वाय
5. गुजराती साहित्यसारो विचार देखी - शावुणाई शाहेर
6. नववाक्यांना विश्वास अने सर्जक - प्र. नरेशचंद, प्रकाश धर्मी शृंगार, राजेंद्र प्र. आ. १८८३
7. नववाक्य स्वरूप - प्रविष्ट दर्श युनि. प्रशिक्षित श्रीর अमिताभ - प्र. आ. १८८४
8. हिंदेन्नी - विज्ञानीश्वरी, संभाव्य प्रक्रिया अमिताभ - प्र. आ. १८८४
9. "माधव कवांग नथी" - हरीन्द्र देवे
10. "हिंदेन्नी वातो" भाग - १ - र.वि. पाठक

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Title: English Grammar and language

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 generate the structural capacity of students for grammar.

Course

<table>
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<td>1</td>
<td>JUlius CEASER- by WILLIAM SHAKESPEARE</td>
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<tr>
<td>2</td>
<td>Parts of Speech and Articles</td>
<td>20 %</td>
</tr>
<tr>
<td>3</td>
<td>Tenses and Modal Auxiliaries Verbs</td>
<td>30 %</td>
</tr>
<tr>
<td>4</td>
<td>Prefix Suffix and Word Building</td>
<td>15 %</td>
</tr>
<tr>
<td>5</td>
<td>Application writing / business letter writing</td>
<td>15 %</td>
</tr>
</tbody>
</table>

Reference Books

1. Wren and Martin English Grammar
2. Essentials of English Grammar
3. Communication Skills Basic Theories by – Ms. Krupa Purohit, Dr. I.G. Purohit
4. JUlius CEASER- William Shakespeare - Flipkart
Title: Economics of Cooperation

Objectives:
1. To understand the philosophy and principles of coop.
2. To know the values of coop. and realize it
3. To understand the importance of cooperatives in agri. and rural development
4. To get introduction of different cooperative societies

Course:
Unit – 1 Origin, Meaning and definition co-operation, Principles, values and characteristics of co-operation, Role of Co-operatives in agri. and rural development. 20%

Unit – 2 Comparison of Cooperation with other economic system like Capitalism, socialism, communism and mixed economy. 20%

Unit – 3 Nature, importance, objectives, function and limitation of – PACS, District central coop. banks, state coop. banks. Processing co – Operative Marketing co – Operative 30%

Unit – 4 Roll of the state in development of co – Operative sector, government controls and its effects on co – Operative activity 15%

Unit – 5 Evaluation of Indian co-operative movement. Successes and limitations 15%

Reference Books
1. Theory, history and practice of co-operative. -Bedi R.D
2. Co-operative movement in India -Hough E.M.
3. Rural Development co-operation. -Mathur B.L
4. What is co-operation? -War buss
5. The law and principles of co-operation. -Haverl. Calvert
6. Factors Affecting liabilities -Rao S.B
7. Co-operative in agriculture.
8. Co-operative and rural development. -Kanitha