SOIL CONSERVATION AND WATER MANAGEMENT

SUMMARY CHART:

<table>
<thead>
<tr>
<th>Year</th>
<th>Paper</th>
<th>Title of the Course</th>
</tr>
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<tr>
<td>First</td>
<td>I</td>
<td>Soil Science I</td>
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<tr>
<td>First</td>
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<td>Water Management I</td>
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<td>Second</td>
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<td>Soil Conservation II</td>
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<td>Third</td>
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<td>Third</td>
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SOIL CINSERVATION AND WATER MAHNAGEMENT

Class: F. Y. B. A.

Paper I: Soil Science
To get introduced to soil components and farming process.
To get introduced to the concept of water resources
To learn the basics water management
To learn the concept of nutrients in soil

1. Soil:
   1.1. Definition of Soil.
   1.2. Soil forming process (Weathering)
   1.3. Components of soil, air, water, soil organisms.
   1.4. Introduction to rocks and minerals.

2. Soils of Maharashtra: Types of soils on the basis of agro climatic zones, rain fall & Geography.

3. Soil Properties:
   3.2. Chemical properties: Soil fertility.
   3.3. Biological properties.

4. Nutrient Management:
   4.2. Integrated nutrient management.
   4.3. Role of nutrients and their deficiency (Syndromes)

5. Soil Fertility and Productivity:
   5.1. Definition of fertility and productivity.
   5.2. Factors affecting soil fertility.

6. Soil Erosion:
   6.1. Definition of soil erosion.
   6.2. Types of soil erosion: Erosion by water, Erosion by wind.
Soil Science Practicals:

1. Collection and visual examination of types of soils and samples.
2. Determination of different horizons of local soil profile.
3. To determine the soil pH.
4. To determine the water holding capacity of the soil.
5. To determine the moisture percentage of soil sample.
6. To find out porosity of given soil sample.
7. To determine the electrical conductivity of given soil sample.
8. To find out the bulk density of given soil sample.
10. Observation of various types of macro- and micro-organisms in soil.

Along with this lab work following skills can be developed in the student.
1. Device exercise to be done as part of experiment.
2. Computer literacy (MS word, Power Point, Internet browsing, downloading etc.)
3. Technical and writing skills.
Personality development related work. They may select above listed experiment for adopting above skills
SOIL CINSEVRATION AND WATER MAHNAGEMENT

Class: F. Y. B. A.

Paper II: Water Management:

1. Water:
   1.1. Definition of water.
   1.2. Sources of water.
   1.3. Role of water.

2. Hydrology:
   2.1. Definition of Hydrology.
   2.2. Components of hydrology: Infiltration, Evaporation, Run off.
   2.3. Ground water hydrology: aquifers, ground water hydraulics, ground water collection system, land configuration.
   2.4. Quantification of natural water.

3. Ground Water:
   3.1. Definition of ground water.
   3.2. Types of ground water.
   3.3. Soil available water, field capacity.

4. Monsoon:
   4.1. Types of rain fall.
   4.2. Measurement of rain fall.
   4.3. Types of monsoon.

5. Irrigation Water:
   5.1. Definition of irrigation water.
   5.2. Sources of irrigation water.
   5.3. Principles and practices if irrigation water.
   5.4. Factors affecting use efficiency of irrigation water.
   5.5. Characteristics of irrigation water.

6. Irrigation Methods:
   6.2. Advantages and disadvantages of irrigation methods.
**Water Management Practicals:**

1. To determine the pH of water.
2. To determine the electric conductivity of water.
3. To determine the available salts in water.
4. To determine the carbonates and bicarbonates in water.
5. To measure the rain fall.
7. Design of drip irrigation method.
8. To determine the characteristics of irrigation water.
TOURISM AND TRAVEL MANAGEMENT

SUMMARY CHART:

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<th>Year</th>
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<tbody>
<tr>
<td>First</td>
<td>I</td>
<td>Fundamentals of Tourism (Theory Course)</td>
</tr>
<tr>
<td>First</td>
<td>II</td>
<td>Tourist Resources (Practical Course)</td>
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<tr>
<td>Second</td>
<td>I</td>
<td>Tour Management (Theory Course)</td>
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<tr>
<td>Second</td>
<td>II</td>
<td>Tourism Entrepreneurship (Practical Course)</td>
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<tr>
<td>Third</td>
<td>I</td>
<td>Tourism Marketing and Service Industry (Theory Course)</td>
</tr>
<tr>
<td>Third</td>
<td>II</td>
<td>Travel Agency Operation (Practical Course)</td>
</tr>
</tbody>
</table>

NOTE:

1. Instead of two theory papers, the syllabus is divided into one theory and one practical paper.
2. The titles of the papers are modified. The new titles are as given in the summary chart.
3. Repeated topics are excluded and relevant components are introduced.
4. The syllabus has been restructured by considering the market demands.
5. An attempt has been made to provide exposure to the students to the corporate sector.
6. Computer skills have been introduced.
7. Personality development & communication skills are introduced through projects, viva and on the job training.
8. Intelligence test is being tested in the class activity conducted in the practical paper.
TOURISM AND TRAVEL MANAGEMENT

Objectives
To get introduced to History of Tourism
To get introduced to the Fundamentals of Tourism
To learn the basics of computer knowledge required for travel industry
To learn the concept report of tourism sites visit.

Class: F. Y. B. A.

Paper I: Fundamentals of Tourism (Theory Course)

1. Introduction to Tourism: a) Tourism product: Meaning and definition. b) Tourism business. c) Elements of tourism. d) Components of tourism.


3. Tourism Industry: a) Concept of tourist, visitor, excursionist. b) Introduction to tourism as an industry. c) Multinational regulations affecting tourism industry.


5. Impacts of Tourism:
   A: Social importance a) Tourism and international understanding, b) Cultural benefits of Tourism. c) Tourism and National Integration.
   B: Economic Importance: Tourism as employment generator. b) Foreign Currency & balance of payment. c) Cost benefit of International Tourism. d) Capital-output ratio.


Evaluation:

Internal Assessment: Internal examination: 10 marks.
Attendance: 5 marks.
Communication Skills: 5 marks.
TOURISM AND TRAVEL MANAGEMENT

Class: F. Y. B. A.

Paper II: Tourist Resources (Practical Course)

1. Introduction: a) Historical background of India. b) Geographical background of India-Map work (District, State, country Divisions-Mountains, Plateau, Plain, Coast and Islands).

2. Tourist Resources:
   B) Man made Resources: a) Definition. b) Architectural heritage- Glimpses of India’s Architectural styles.


4. Projects and Presentation:
   A) Visits: a) Tourist destination (City) b) Monument (City) c) Long tour
     
     The visit report to be submitted with presentation.
   B) Project on any one State of India.

5. Practical application of computer knowledge in terms of gathering information and data.

6. Slide shows and guest lectures on various destinations

Evaluation:

Internal Assessment: Internal examination: 10 marks.
Attendance: 5 marks.
Timely submission of Projects and Reports: 5 marks.

Along with this lab work following skills can be developed in the student.
1. Device exercise to be done as part of experiment. 2. Computer literacy (MS word, Power Point, Internet browsing, downloading etc.) 3. Technical and writing skill $. Personality development related work. They may select above listed experiment for adopting above skills.