

SOIL CINSERVATION AND WATER MAHNAGEMENT

SUMMARY CHART:

Year	Paper	Title of the Course
First	I	Soil Science I
First	II	Water Management I
Second	I	Soil Conservation II
Second	II	Water Management II
Third	I	Soil Conservation II
Third	II	Water Management II

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:

3.1. Physical properties: Texture, Structure, Bulk density, Hydraulic conductivity.

3.2. Chemical properties: Soil fertility.

3.3. Biological properties.

4. Nutrient Management:

4.1. Sources of nutrients: Organic, Inorganic, Bio fertilizer.

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.
9. Determination of organic content of soil.
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 skill.
- Personality development related work. They may select above listed experiment for adopting above skills

SOIL CONSERVATION AND WATER MANAGEMENT

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:

- 6.1. Methods of irrigation: Surface irrigation, Sprinkler, Drip irrigation.
- 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.
6. Design of sprinkler method.
7. Design of drip irrigation method.
8. To determine the characteristics of irrigation water.

TOURISM AND TRAVEL MANAGEMENT

SUMMARY CHART:

Year	Paper	Title of the Course
First	I	Fundamentals of Tourism (Theory Course)
First	II	Tourist Resources (Practical Course)
Second	I	Tour Management (Theory Course)
Second	II	Tourism Entrepreneurship (Practical Course)
Third	I	Tourism Marketing and Service Industry (Theory Course)
Third	II	Travel Agency Operation (Practical Course)

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.
2. Historical importance of tourism: a) Growth through ages, b) Account for famous travelers. c) Roman empire with pleasure travel. d) The concept of annual holiday and Industrial revolution. e) Paid holiday and mass tourism. f) Effects of great wars on tourism.
3. Tourism Industry: a) Concept of tourist, visitor, excursionist. b) Introduction to tourism as an industry. c) Multinational regulations affecting tourism industry.
4. Growth and Development of Tourism in India: a) Formation of Ministry of Tourism. b) Department of Tourism. c) Growth of tourism post Independence. d) Cultural tourism in India.
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.
6. Basic Computer Knowledge: MS Office.

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:
 - A) Natural Resources: a) Definition. b) Types and topology. C) Climate: Water bodies, Flora and Fauna. d) Land forms: Mountains, Deserts, Coasts, and Islands.
 - B) Man made Resources: a) Definition. b) Architectural heritage- Glimpses of India's Architectural styles.
 - C) Historical Monuments: Hindu, Buddhist, Jain, Sikh, Christian and Islamic. Historical and architectural sites. Museums, Art galleries, and Libraries.
3. Socio Cultural Resources: Performing arts of India a) Classical and Folk dance. b) Music and Musical Instruments. c) Folk Customs and Costumes. d) Folklore and legends. e) Fairs ad Festivals. f) Handicrafts of India.
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.
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 3. Technical and writing skill \$.
- Personality development related work. They may select above listed experiment for adopting above skills