

K.K.Wagh Arts,Commerce,Science & Computer Science College,Chandori is the college in rural area which provides education in Arts,Commerce,Science & Computer Science stream at U.G.& P.G. level to students of this rural area. Since 2004 many students graduated in Chemistry.

K.K.Wagh Arts,Commerce,Science & Computer Science College,Chandori decided to introduce new add-on courses for B.Sc. students from 2018-19. Due to most of the students are from farmer background this course will be helpful to students doing farming using advance techniques of science.

### Objectives of the Course:-

1. To develop basic understanding regarding soil testing in the students.
2. To introduce them with macro and micro nutrients for soil.
3. To enhance their skills about water analysis.

### Instructional Design:-

This course is of 30 hrs duration which includes theory classes & practical theory/demonstration.

### Course Structure and Examination Scheme:-

Course No.	Course Name	Theory Classes (Hour)	Practical Theory/De monstratio n (Hour)	Examination		Total Marks
				Theory	Practical Theory	
1	Soil and Water analysis	20	10	30	20	50

**Note:** Each student should compulsorily submit Field Project Report not less than 20 pages

**Eligibility:** All students belongs to F.Y./S.Y./T.Y.B.Sc.

**Course Fee:** Not Applicable

**No. of Seats:** 20

**Marking system:-** Following markin system will be applicabeto the course.

<b>Range of % of marks</b>	<b>Class</b>
70-<100	Distinction
60-<70	First class
50- <60	Second class
40- <50	Pass class
<40	Fail

# Certificate Course in Soil and Water Analysis

Course Code : CCE-01

Syllabus: 2018-19

## Theory:

**Unit I-** Introduction to Soil analysis, Types of soil, Soil pollutants, role of soil testing for environment, Uses of soil analysis. (15 marks)

**Unit II-** Introduction to Water analysis, Types of Water, Water pollutants, role of water testing for environment, Uses of water analysis. (15 marks)

## Practical theory (Demonstrations):

**Part I – Soil Analysis** (10 marks)

- 1) To determine  $P^H$  of given soil sample.
- 2) To determine nutrient content (NPK) of soil & fertilizer recommendations.
- 3) To determine salinity of given soil sample.

**Part II – Water Analysis** (10 marks)

- 1) To determine hardness of water.
- 2) To determine  $P^H$  of given water sample.
- 3) To determine alkalinity of water.

This proposal is placed before principal of K. K. Wagh Arts, Commerce, Science & Computer Science College, Chandori for syllabus approval.

  
H.O.D.

  
Principal