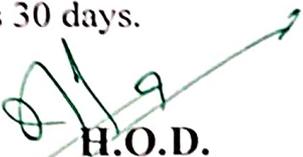


ANDHRA CHRISTIAN COLLEGE :: GUNTUR
(Day, Evening & P.G.)
NOTICE

Date : 06-06-2018

All the 1st, 2nd and 3rd year B.Sc. students are hereby informed to submit their names for the certified course on "Soil Testing and Analysis " for the academic year 2018-2019 to the H.O.D., Department of Chemistry, Guntur on or before 11-6-2018. The Course will commence from 11-06-2018 and the duration of the course is 30 days.


H.O.D.
Dept of Chemistry

Copy to:

1. The Co-ordinator, IQAC, Andhra Christian College.
2. The Office Manager, Andhra Christian College.


PRINCIPAL
PRINCIPAL
ANDHRA CHRISTIAN COLLEGE
(Day, Evening & P.G)
GUNTUR

ANDHRA CHRISTIAN COLLEGE, GUNTUR
Department Of Chemistry

Certificate Course in Soil Testing and Analysis

Duration : 1 Month

Eligibility : Intermediate with Science

COURSE OBJECTIVES

- To bring awareness about the importance of soil and water testing among the farming community for increased yields.
- To evaluate the fertility status of our state and prepare the soil fertility maps for fertilizer recommendations
- To know the basic information about soil and its analysis.
- To familiarize to the methods of sampling.


HEAD, CHEMISTRY DEPARTMENT
A.C. COLLEGE, GUNTUR.

Soil Testing and Analysis

Lectures to be Delivered : 30

Max. Marks : 25

- Unit – I** : Importance of Soil Testing and Analysis **8 Hours**
- Unit – II** :
Sample Collection and Processing Purpose of Soil testing and analysis, selection of field, Method of Soil Sample collection Methods of soil sample processing, precautions during soil collection & processing, Preservation labelling and Storage of soil samples, various types of boys used for collection. **12 Hours**
- Unit – III** : **Study of Instruments:**
Brief study of instruments : PH Meter, Conductivity meter, spectrometer, UV-Spectrophotometer, (Calibration, Instrumentation, applications only) use of soil testing kit and mobile soil testing van. Kjeldahl's Assembly for determination of nitrogen. **8 Hours**
- Unit – IV** : **Study of Laboratory Setup**
Laboratory Layout, Built up area, Laboratory requirements, working pattern, budget requirement, trained manpower, various funding schemes and agencies. **10 Hours**
- Unit – V** : **Soil Testing Methods**
PH measurement, Estimation Of Organic Carbon, Estimation Of Nitrogen, Estimation Of Phosphorous, Estimation Of Potash

HEAD, CHEMISTRY DEPARTMENT
A.C. COLLEGE, GUNTUR

Books Recommended (Books suggested for Reading) :

1. Soil Sampling, Preparation and analysis, Marcell Dekker, Inc, New York.
2. Soil Sampling and methods of analysis, carter M.R. and E.G.Gregorich, 2007, 2nd Ed..
3. Methods of soil analysis, Part, American society of Agronomy Inc., Kuete, A.Et.at., 1986.