

KRISHNASAMY

College of

ENGINEERING & TECHNOLOGY

Approved by AICTE & Affiliated to Anna University

Anand Nagar, Nellikuppam Main Road, S. Kumarapuram, Cuddalore - 607 109, Tamil Nadu.

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DEPARTMENT OF CIVIL ENGINEERING

Date : 20.02.2024

CIRCULAR

Ref.: KCET/CIVIL/VAC/CIRCULAR/2023-24/02.

The following Value-Added Course will be conducted during the academic year 2023-2024. The course will be conducted in two phases from 21.02.2024 to 24.02.2024 and from 28.02.2024 to 01.03.2024. Students are instructed to register their names for the course allotted to them.

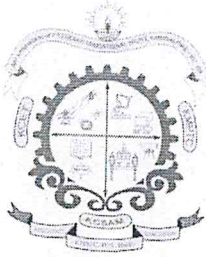
Note: Students are instructed to attend the program without fail.

S. No.	Course Code	Name of the Course	Year / Sem	No. of Period	Course Coordinator
1	CE-VAC2302	Basic Measurements Of Construction Work	II / III	30	Er.C.Sureshkumar AP/Civil

P. Divi
20/2/24
HoD/CIVIL

[Signature]
20/2/24
Vice-Principal

[Signature]
20/2/24
Principal



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SYLLABUS

COURSE CODE CE-VAC2302
COURSE NAME BASIC MEASUREMENTS OF CONSTRUCTION WORK

COURSE OBJECTIVES

- To provide an overview about the principles of measurements of construction work.
- To understand and apply the fundamentals of measurements in surveying.
- To understand the area and volumetric measurements of concreting work
- To enhance the knowledge of protection of structures.
- To understand the need of maintenance of structures.

Module I : Introduction

Introduction of units - SI units - Building measurements - Road measurements - Area calculation - Volume calculation of construction work\.

6

Module II : Equipment for Measurements

Linear measurement - 2D Measurement - 3D Measurement - Chain - Types - Application-Tape - Types-application - Current technology for measurements.

6

Module III : Structural Construction Works

Earth work - Sand filling - PCC - RCC - Beam - Types- Column- Types- DPC- wall- Roof - Floor.

6

Module IV : Non-structural Construction Works

Plastering - Painting- Centering- Shuttering - Filling and Refilling of soil - Storage place - Flooring.

6

Module V : Maintenance Work

Repair and rehabilitation of construction work-wall-beam-roof-floor-New Technology in Repair works.

6

Total No. of Periods 30

COURSE OUTCOMES

At the end of the course the student will be able to

- Introduce the rudiments of various measurements and its principles.
- Imparts knowledge in computation of area of terrain and ground features by suitable equipment's
- Imparts concepts of operations to construction structural components.
- Understand the procedure for establishing various construction work
- Imparts the knowledge on maintenance of structures.

REFERENCES

- R. Subramanian, Surveying and Levelling, Oxford University Press, Second Edition, 2012.
- K. R. Arora, Surveying Vol I & II, Standard Book house, Twelfth Edition 2013.

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